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PROTOZOA

COMPILED BY

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2. PROTOZOA

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FOREWORD

Papers dealing with Protozoa entirely from a medical or veterinary standpoint (clinical, therapeutic, etc.) are omitted, but notices of these will be found in *Tropical Diseases Bulletin* and *Veterinary Bulletin*.

This volume includes literature on fossil protozoa published during 1957 and 1958.

I.—TITLES

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Alactago elater, blood (USSR): *Trypanosoma ulanovi* sp. n (Mastig.), I. G. **Galuzo** & V. F. **Novinskaya** (1).

Antherurus africanus centralis, blood (Belgian Congo): *Plasmodium atheruri* sp. n. (Haemosporid.) L. van den **Bergh,** E. **Peel,** M. **Chardome** & F. L. **Lambrecht.**

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Crocidura schweitzeri, intestine (Liberia): coccidia, R. S. **Bray** (3).

Cuniculus paca nelsoni, blood (Honduras): *Trypanosoma lewisi* (Mastig.), P. C. C. **Garnham** & D. J. **Lewis.**

Dog, blood (Russia): haemogregarines (Haemosporid.) observed, A. A. **Tukhmanyuk.**

Dogs, blood, etc (USA): *Babesia canis* (Haemosporid.), H. R. **Seibold** & W. S. **Bailey.**

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Didelphis marsupialis blood (USA): *Trypanosoma cruzi* (Mastig), S. **McKeever,** G. W. **Gorman** & L. **Norman.**

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Herpestis ichneumon, blood (Egypt) *Gonderia herpestis* sp. n. (Haemosporid.), M. H. **Haiba.**

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Microtus pennsylvaticus, blood (USA): incidence of blood parasites (Sporoz.), S. A. **Kirner,** K. R. **Barbehenn** & B. V. **Travis.**

Mole, blood (England): *Smithia talpae* (Haemosporid), H. E. **Shortt** & R. S. **Robinson.**

Ochotona pallasi, blood (USSR): *Trypanosoma ochotoni* sp. n. (Mastig.), I. G. **Galuzo** & V. F. **Novinskaya (1).**

Odocoileus virginianus couesi, blood (USA): *Babesia* (Haemosporid), L. A. **Spindler,** R. W. **Allen,** L. S. **Diamond** & J. C. **Lotze.**

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Ox, blood (Kenya): *Eperythrozoon, Bartonella* and *Anaplasma* (Sporoz.), D. W. **Brocklesby.**

Pigs (USA): incidence of intestinal protozoa, E. **Lesser** & C. D. **Squiers.**

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Protem-nodon bicolor, tissues (captive) *Toxoplasma* (Sporozoa), S. W. **Thompson** & T. H. **Reed.**

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Sciurus carolinensis, blood (USA): *Hepatozoon sciuri* (Coccid.), W. P. **Weidanz** & K. E. **Hyland.**

Sheep, blood (Belgium Congo): *Babesia motasi* (Haemosporid.), C. **Huygelen** & J. **Mortelmans (1).**

Tadarida bemmelini, ileum (Liberia): *Eimeria* (Coccid.), R. S. **Bray (3).**

Xerus erythropus, gut (Nigeria): *Eimeria garnhami* sp. n. (Coccid.) B. **McMillan.**

Xerus rutilus spleen (Kenya): *Leishmania* isolated by inoculation into hamster, R. B. **Heisch (2).**

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Ardea herodias, muscle (USA): *Sarcocystis* (Sarcosporid.), G. M. **Clark** (3).

Geopelia striata striata, blood (Java): trypanosome, F. C. **Kraneveld** & M. **Mansoer.**

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Quiscalus quiscula, muscle (USA): *Sarcocystis* (Sarcosporid.), G. M. **Clark** (3).

Sturnella magna muscle (USA): *Sarcocystis* (Sarcosporid.), G. M. **Clark** (3).

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Chamaeleo lateralis, blood (Madagascar): *Pirhemocyton chamaelonis* sp. n. (Sporoz.), A. **Dodin** & E. R. **Brygoo.**

Chrysemys picta, gut (Canada): *Entamoeba invadens* (Rhizop.), E. **Meerovitch** (2).

Cnemidophonus lemniscatus gut (Venezuela): *Vahkampfia reynoldsi*, *Entamoeba cnemidophori* sp. n. (Rhizop.), L. A. de **Peraza.**

Eremias guttulatus, blood (Morocco): *Pirhemocyton eremiasi* (Sporoz.), G. **Blanc** & L. **Ascione.**

Lacerta serpa var. *galvagnii* blood (Yugoslavia): *Haemosgregarina melisseleusis* sp. n. (Sporoz.), Z. **Gorgevitch.**

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Fundulus heteroclitus blood (USA): *Kudoa* sp. (Myxosporid.), W. L. **Bullock.**

Paralichthys dentatus, blood (USA): *Haemogregarina* (Coccid.), W. L. **Bullock.**

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†New Jurassic foraminifera in England, G. C. **Adams.**

†New Jurassic foraminifera in Russia, E. V. **Mamontova.**

†New Jurassic foraminifera from Egypt, R. **Said** & M. G. **Barakat** (3).

†New Liassic foraminifera from Denmark, A. **Nørvang** (2).

†New Cretaceous foraminifera in Belgium, P. **Marie** (1).

New Cretaceous foraminifera in Western Europe, J. **Hofker** (15).

†New Cretaceous foraminifera from Alaska, H. **Tappan.**

†New Cretaceous foraminifera from Canada, C. R. **Stelck** & J. H. **Wall.**

†New Cretaceous foraminifera from Dakota, U.S.A., H. **Skolnick.**

†New Cretaceous foraminifera in Trinidad, H. **Bartenstein,** F. **Bettenstaedt,** & H. M. **Bolli;** H. M. **Bolli** (1).

†New Cretaceous foraminifera from Egypt, R. **Said** & M. G. **Barakat** (1); (2); R. **Said** & A. **Kenawy.**

†New Cretaceous and Tertiary foraminifera from France, V. **Sacal** & A. **Debourle.**

†New Tertiary foraminifera from California, O. L. **Bandy** & R. E. **Arnal** (2).

†New Tertiary foraminifera from Columbia, L. E. **Becker** & A. N. **Dusenbury.**

†New Tertiary foraminifera from Russia, N. V. **Bykova.**

†New Tertiary foraminifera from Saipan, R. **Todd** (5).

†New Kainozoic foraminifera from Micronesia, S. **Hanzawa** (2).

†New figured but undescribed foraminifera from Italian Kainozoic, **Anon-AGIP Mineraria** (5).

†New Paleogene foraminifera in Russia, D. M. **Khalilov** (2).

†New Palaeogene foraminifera from California, B. Y. **Smith.**

†New Palaeogene foraminifera from Japan, S. **Yoshida.**

†New Eocene foraminifera from England, J. **Haynes** (2).

†New Eocene foraminifera from Florida, H. L. **Levin.**

†New Neogene foraminifera from Alaska, R. **Todd** (6).

†New Miocene foraminifera from Virginia, J. D. **McLean** (1).

†New Miocene foraminifera from Brazil, S. **Petri.**

†New Miocene foraminifera in Japan, Y. **Fujita** & S. **Ito.**

New but unnamed foraminifera from the Japan Sea, S. **Stchedrina.**

New foraminifera from Louisiana coastal bayou, A. D. **Warren.**

New foraminifera from the North-West Pacific, Y. **Hada.**

New Pacific foraminifera, J. A. **Cushman** & I. **McCulloch.**

†*Abathomphalus* **gen. n.** (p. 42) (genotype *Globotruncana mayaroensis* Bolli 1951) Cretaceous, H. M. **Bolli,** A. R. **Loeblich,** & H. **Tappen.**

†*Acarinina praecursoria* **sp. n.** (p. 1111) Cretaceous, Russia, V. G. **Morozova** (1).

†*Acervulina* **subgen. n.** *Ladoronia* see *Ladoronia*, S. **Hanzawa** (2).

†*Adelosina;* systematics thereof; *A. depressa* (d'Orbigny) (from *Qurinqueloculina depressa* d'Orbigny 1826); *A. pulchella* (d'Orbigny) (from *Q. pulchella* d'Orbigny 1826 and includes *A. duthiersi* Schlumberger 1886); *A. elegans* (d'Orbigny) (from *Q. elegans* d'Orbigny and includes *A. bicornis* Walker & Jacob 1886); M. **Mangin.**

†*Aeolostreptis* **gen. n.** (p. 227) (genotype *Buliminella vitrea* Cushman & Parker 1936) Cretaceous, A. R. **Loeblich** & H. **Tappan** (5).

†*Afghanella elegantula* **sp. n.** (p. 143); *A. magna* **sp. n.** (p. 148) Permian, Crimea, A. D. **Miklukho-Maklai** (2).

†*Agathammina antiqua* **sp. n.** (p. 244) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3).

†*Aktinorbitoides* **gen. n.** (p. 167) *browni* **sp. n.** (p. 168) (genotype) Upper Cretaceous, Caribbean, P. **Bronnimann.** (5)

†*Alabamina polita* **sp. n.** (p. 40) Tertiary, Columbia, L. E. **Becker** & A. N. **Dusenbury;** †*A. kernensis* **sp. n.** (p. 99) Oligocene California, H. P. **Smith;** †*A. conica* **sp. n.** (p. 295) Eocene, Saipan, R. **Todd** (5).

†*Aljutovella isvarica* **sp. n.** (p. 431), *A. paraprolifica* **sp. n.** (p. 435); Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Alliatina;* status thereof, D. J. **Carter.**

†*Alliatinella* **gen. n.** (p. 82) *gedgravensis* **sp. n.** (p. 83) (genotype) Pliocene, Europe, D. J. **Carter.**

†*Allomorphina bullata* **sp. n.** (p. 199) Cretaceous, Western Europe, J. **Hofker** (15).

†*Almaena debourlei* **sp. n.** (p. 59); *A. delmasi* **sp. n.** (p. 62); *A.d.* **var. n.** *polygonata* (p. 63); Eocene, France, M. **Rey.**

†*Alveolina flosculinoides* **sp. n.** (p. 1); *A. di-stefani* **ab. n.** *trilocularis* (p. 4); Eocene, Italy, T. de **Stefani** (2). [unusual taxonomy !]

†*Alveophragmium becki* **sp. n.** (p. 54) Tertiary, California, O. L. **Bandy** & R. E. **Arnal** (2).

†*Ammobaculites amarus* **sp. n.** (p. 30) North-West Pacific, Y. **Hada.** *A. altilis, culmula* **spp. n.** (p. 280); *A. imbricatus, impolitus* **spp. n.** (p. 281); *A. urniformis* **sp. n.** (p. 282); Cretaceous, Dakota, U.S.A., H. **Skolnick;** *A. brunsae, usbekistanensis* **spp. n.** (p. 435) Mesozoic, Russia, I. S. **Suleimanov;** *A. crassus, subcatenulatus* **spp. n.** (p. 32) Louisiana bayou, A. D. **Warren;** *A. elegantissima, glaessneri, magharaensis* **spp. n.** (p. 241) Jurassic, Egypt, R. **Said** & M. F. **Barakat** (3); *A. janus* **sp. n.** (p. 23); *A. tyrrelli* **var. n.** *jolifouensis* (p. 23) Cretaceous, Canada, C. R.

Stelck & J. H. **Wall**; *A. manijschensis* **sp. n.** (p. 58) Tertiary, Russia, N. K. **Bykova**; *A. spiculifera* **sp. n.** (p. 22) Cretaceous, Western Europe, J. **Hofker** (**15**); *A. trinidadensis* **sp. n.** (p. 17) Cretaceous, Trinidad, H. **Bartenstein**, F. **Bettenstaedt**, & H. M. **Bolli**; *A. turonicus* **sp. n.** (p. 79) Cretaceous, Egypt, R. **Said** & A. **Kenawy**; †*Ammobaculoides athabascensis* **sp. n.** (p. 25) Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall**; *A. minuens* **sp. n.** (p. 283) Cretaceous, Dakota, U.S.A., H. **Skolnick**.

†*Ammocycloloculina* **gen. n.** (p. 53) (gentype *Spirocyclina erratica* Joukowsky & Favre 1913) Cretaceous, W. **Maync** (**3**).

†*Ammodiscoides magharaensis* **sp. n.** (p. 239) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (**3**).

†*Ammodiscus bresticus* **sp. n.** (p. 217) Mesozoic, Russia, I. V. **Mityanina**; *A. diadema* **var. n.** *irregularis* (p. 104) Carboniferous, Russia, V. K. **Gholubtzov** (**2**); *A. ovata* **sp. n.** (p. 507) Miocene, Japan, Y. **Fujita** & S. **Ito**.

†*Ammomarginulina aburoashensis, blanckenhorni* **spp. n.** (p. 78); *A. ovoidea* **sp. n.** (p. 79); Cretaceous, Egypt, R. **Said** & A. **Kenawy**; †*A. pellucida* **sp. n.** (p. 240) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (**3**); †*A. tillmanni* **sp. n.** (p. 68) Cretaceous, Germany, I. H. **Ziegler** (**2**).

Ammotium fragile **sp. n.** (p. 32); *A. multiloculatum, palustre, subdirectum* **spp. n.** (p. 33); Louisiana bayou, A. D. **Warren**.

†*Angulodiscus* **gen. n.** *communis* **sp. n.** (p. 278) (genotype); *A. macrostoma* **sp. n.** (p. 279); *A. tenuis* **sp. n.** (p. 280); Rhaetic, Austria, E. **Kristan**.

†*Angulogavellinella* **gen. n.** (p. 365) [genotype *Discorbina gracilis* Marsson]; *A. bettenstaedti* **sp. n.** (p. 367); Cretaceous, Western Europe, J. **Hofker** (**15**).

†*Angulogerina paraensis* **sp. n.** (p. 58), Miocene, Brazil, S. **Petri**; *A. albatrossi* **var. n.** *hirsuta* (p. 278) off Galapagos, *A. carinata* **var. n.** *vana* (p. 287) Californian coast; *A. fluens* **sp. n** (p. 288) Alaskan coasts; [authorship to Todd of preceding forms]; *A. agrectis* **sp. n.** (p. 288) off Guadalupe; *A. hughesi* **var. n.** *picta* (p. 290) Oregon coasts; J. A. **Cushman** & J. **McCulloch**.

†*Anomalina humei* **sp. n.** (p. 45) Cretaceous, Egypt, R. **Said** & M. G. **Barakat** (**1**); *A.* ? *maculosa* **sp. n.** (p. 296) lagoon, Saipan, R. **Todd** (**5**); *A. pomeyroli* **sp. n.** (p. 66) Eocene, France, V. **Sacal** & A. **Debourle**; *A. regina* **var. n.** *minor* (p. 192) Palaeogene, California, B. Y. **Smith**.

†*Anomalinoides capitatus* (Gümbel); status thereof, J. **Hofker** (**16**); *A. granosa* (Hantken); status thereof, J. **Holker** (**16**); *A. vanbelleni* ten Dam & Sigal; status thereof, J. **Hofker** (**16**); *A. vanbelleni* ten Dam & Sigal 1950; status thereof, R. C. **van Bellen**.

†*Apterrinella augustai* **sp. n.** (p. 348) Namurian, Czechoslovakia, M. **Vašiček** & B. **Růžička** (**2**).

†*Archaediscus convexus* **sp. n.** (p. 91); *A. velgurensis* **sp. n.** (p. 92); *A. vischerensis* **sp. n.** (p. 93); *A. donetzianus* **sp. n** (p. 93) (authorship to Sosnina); *A. angulatus* **sp. n.** (p. 99) (authorship to Sosnina); *A. bashkiricus* **var. n.** *pressula* (p. 101); *A. latispiralis* **sp. n.** (p. 102); *A. gregorii* **sp. n.** (p. 106) (authorship to Dain); *A. g.* **var. n.** *gregorii* (p. 106) (authorship to Dain); *A.g.* **var. n.** *acutiformis* (p. 107); *A. stilus* **sp. n.** (p. 110); *A. minimus* **sp. n.** (p. 111); (authorship to Grozdilova and Lebedeva except where separately stated); Carboniferous, Russia, L. G. **Grozdilova**; *A. krestovnikovi* **var. n.** *multicava* (p. 153); *A. granum* **sp. n.** (p. 152); *A. perlucidus* **sp. n.** (p. 153); *A. p.* **var. n.** *maxima* (p. 154); *A. spirillinoides* **var. n.** *faceta* (p. 155); *A. s.* **var. n.** *grandis* (p. 156); Carboniferous, Russia, V. K. **Gholubtzov** (**2**).

†*Archaelagena rauserae* **sp. n.** (p. 96) Carboniferous, Russia, V. K. **Gholubtzov** (**2**).

†*Archaias* Montfort 1808 emended Henson 1950, systematics thereof (p. 207); *A. hensoni* **sp. n.** (p. 219) Tertiary, Iraq, A. H. **Smout** & F. E. **Eames**.

†*Arenagula* **gen. n.** (p. 336) *globula* **sp. n.** (p. 336) (genotype) Eocene, France, M. **Bourdon** & M. **Lys**.

†*Arenobulimina paynei* **sp. n.** (p. 208); *A. torula* **sp. n.** (p. 209); Cretaceous, Alaska, **H. Tappan.**

†*Arenonina* **gen. n.** (p. 118) *cretacea* **sp. n.** (p. 119) (genotype) Cretaceous, England, T. **Barnard (3).**

†*Arenovirgulina* **gen. n.** *aegyptiaca* **sp. n.** (p. 243) (genotype) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3).**

†*Arnoldia* Hovasse 1956; status thereof, G. **Deflandre (4).**

†*Asanoina eocenica* **sp. n.** (p. 40) Eocene, France, V. **Sacal** & A. **Debourle.**

†*Assilina*; systematics thereof, H. **Schaub.**

†*Astacolus*; refer *Cristellaria*, E. V. **Mamontova;** *A. danvillensis* **var. n.** *venetii* (p. 65) Eocene, England, J. **Haynes (2);** *A. pellucida* **sp. n.** (p. 247) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3).**

†*Asterigerina fimbriata* **sp. n.** (p. 296) Eocene; *A. venusta* **sp. n.** (p. 297) Miocene; Saipan, R. **Todd (5);** *A. primaria* **var. n.** *heligma* (p. 146) Eocene, Florida, H. L. **Levin.**

†*Asterodiscus cuvillieri* **sp. n.** (p. 53) (*nom. nud.*) Eocene, France, M. **Neumann.**

†*Asterosphaera* **gen. n.** (p. 775) [*nom. nud.*] Devonian, Russia, E. A. **Reitlinger.**

†*Astrononion glomerasum* **sp. n.** (p. 61) Paleogene, Russia, D. M. **Khalilov (2).**

Astrorhiza crassatina **var. n.** *asper* (p. 24) North-West Pacific, Y. **Hada.**

†*Baggina parva* **sp. n.** (p. 297) Miocene, Saipan, R. **Todd (5).**

†*Bartramella heglarensis* **sp. n.** (p. 117) Upper Palaeozoic, Idaho, U.S.A., M. L. **Thompson,** H. W. **Dodge** & W. **Youngquist.**

†*Bathysiphon brosgei* **sp. n.** (p, 202) Cretaceous, Alaska, H. **Tappan.**

†*Beedeina* Galloway 1933; emendation thereof (p. 655), K. **Ishii.**

†*Begia* Smout 1956; status thereof, Z. **Reiss (3).**

†*Berthelinella* **gen. n.** (p. 225) (genotype *Frondicularia paradoxa* Berthelin 1879) Jurassic, A. R. **Loeblich** & H. **Tappan (5).**

†*Biglobigerinella barri* **sp. n.** (p. 25) Cretaceous, Trinidad, H. M. **Bolli,** A. R. **Loeblich,** & H. **Tappan.**

†Bilamellidea **superfam. n.** (p. 127); systematics thereof, Z. **Reiss (2).**

†*Biplanispira mirabilis* (Umbgrove) **forma. n.** *depressa* (p. 51); *B. m.* **forma. n.** *elliptica* (p. 51); *B. inflata* **sp. n.** (p. 51); Kainozoic, Micronesia, S. **Hanzawa (2).**

†*Biticinella* **gen. n.** (p. 35) (genotype *Anomalina breggiensis* Gandolfi) Cretaceous, North Africa, J. **Sigal (1).**

†*Bolivina arta* **var. n.** *striatocola* (p. 116); *B. sabiana* **sp. n.** (p. 117) Tertiary, Mozambique, Y. H. **Smitter (2);** *B. bartensteini* **sp. n.** (p. 263) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3);** *B. densa* **sp. n.** (p. 297) Miocene; *B. subrhomboidalis* **sp. n.** (p. 297) Eocene; Saipan, R. **Todd (5);** *B. dentellata* **var. n.** *parva* (p. 2); *B. jriensis* **sp. n.** (p. 2); *B. placentina* **sp. n.** (p. 2); [*nomina nud.*] Kainozoic, Italy, **Anon-AGIP Mineraria (5);** *B. dentellata* **var. n.** *parva* (p. 250), Miocene, Italy, D. **Tedeschi** & C. **Zanmatti (4);** *B. fastigia* **var.** *dertonensis* **nom. n.** (p. 206) (for *B. f.* var *miocenica* Gianotti 1953 (*non* Macfadyen 1930)) A. **Gianotti (1);** *B. hentyana* Chapman 1916; suppression thereof, D. G. **Jenkins (1);** *B. jriensis* **sp. n.** (p. 251) Miocene, Italy, D. **Tedeschi;** *B. lafayettei* **sp. n.** (p. 346), Miocene, Virginia, J. D. **McLean (1);** *B. pirabensis* **sp. n.** (p. 55), Miocene, Brazil, S. **Petri;** *B. placentina* **sp. n.** (p. 252) Pliocene, Italy, C. **Zanmatti;** *B. quasiplicata* **sp. n.** (p. 220); *B. microlancetiformis* **sp. n.** (p. 222); *B. antegressa* **sp. n.** (p. 226); Tertiary, Russia, N. N. **Subbotina;** *B. usensis* **nom. n.** (p. 38) (for *B. ornata* Conato 1952 (*non* Cushman 1952)) V. **Conato.**

†*Borelis parvulus* **sp. n.** (p. 56) Kainozoic, Micronesia, S. **Hanzawa (2);** *B. philippinensis* **sp. n.** (p. 155) Kainozoic, Luzon, S. **Hanzawa (1).**

†*Bradyina rotula* **var. n.** *minima* (p. 120) Carboniferous, Russia, V. K. **Gholubtzov** (2); *B. sphaerica, sphaeroidea* **spp. n.** (p. 372) Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Broekina* Munier-Chalmas 1882; systematics thereof, P. **Marie** (2).

†Broekininae **subfam. n.** (p. 128); systematics thereof, P. **Marie** (2).

†*Brunsiina* **gen. n.** (p. 27) (authorship to Lipina) (*B. uralica* Lipina cited as genotype); *B. lipinae* **sp. n.** (p. 27); Carboniferous, Russia, L. G. **Dain.**

†*Buccella anderseni* **sp. n.** (p, 354), Miocene, Virginia, J. D. **McLean** (1). *B. bella* **sp. n.** (p. 56) Miocene, California, O. L. **Bandy** & R. E. **Arnal** (2).

†*Bucherina* **gen. n.** (p. 557) *sandidgei* (p. 557) (genotype) Cuba, Cretaceous, P. **Bronnimann** & N. K. **Brown** (1).

†*Bulimina aculeata* **var. n.** *basispinosa* (p. 2); *B. a.* **var. n.** *minima* (p. 2); [*nomina nud.*] Kainozoic, Italy, **Anon-AGIP Mineraria** (5); *B. aculeata* **var. n.** *minima* (p. 249) Pliocene, Italy, D. **Tedeschi** & C. **Zanmatti** (3); *B. aculeata* **var. n.** *basispinosa* (p. 248), Pliocene, Italy, D. **Tedeschi** & **C. Zanmatti** (2); *B. desioi* **nom. n.** (p. 54) (for *B. tenuis* di Napoli 1952 (non Phleger & Parker 1951)) E. di N. **Alliata** (1); *B. kleinpelli* **sp. n.** (p. 174); *B. pachecoensis* **sp. n.** (p. 175); Palaeogene, California, B. Y. **Smith**; *B. preacantha* **sp. n.** (p. 345), Miocene, Virginia, J. D. **McLean** (1).

Buliminella elegantissima **var. n.** *limbosa, tenuis* (p. 238) Pacific, J. A. **Cushman** & J. **McCulloch**; *B. pulchra* **sp. n.** (p. 205) Tertiary, Russia, N. N. **Subbotina.**

†Buliminidae, systematics thereof, N. N. **Subbotina.**

Calcituba simplex **sp. n.** (p. 37) Salton Sea, California, R. E. **Arnal.**

†*Cancellina*; systematics thereof, K. **Kanmera** (2); *C. matsushitai* **sp. n.** (p. 237) Permian, Japan, N. **Yamagiwa**; *C. sphaerica* **sp. n.** (p. 122) Permian, Crimea, A. D. **Miklukho Maklai** (2).

†*Cancris joaquinensis* **sp. n.** (p. 98) Oligocene, California, H. P. **Smith**; *C. malloryi* **sp. n.** (p. 185) Palaeogene, California, B. Y. **Smith.**

†*Carbonella* **gen. n.** (p. 36) *spectabilis* **sp. n.** (p. 37) (genotype) Carboniferous, Russia, L. G. **Dain.**

†*Cassidulina kernensis* **sp. n.** (p. 100) Oligocene, California, H. P. **Smith.**

†Cassigerinellinae **subfam. n.** (p. 30) Oligocene to Miocene, H. M. **Bolli**, A. R. **Loeblich** & H. **Tappan.**

†Catapsydracinae **subfam. n.** (p. 36) Middle Eocene to Recent, H. M. **Bolli**, A. R. **Loeblich**, & H. **Tappan.**

†*Catapsydrax* **gen. n.** (p. 36) (genotype *Globigerina dissimilis* Cushman & Bermudez 1937) Upper Eocene to Miocene; *C. parvulus* **sp. n.** (p. 36); *C. stainforthi unicavus* **spp. n.** (p. 37) Miocene, Trinidad, H. M. **Bolli**, A. R. **Loeblich**, & H. **Tappan**; *C. echinatus* **sp. n.** (p. 165) Eocene, Trinidad, H. M. **Bolli** (5).

†*Cepekia* **gen. n.** (p. 342) *cepeki* **sp. n.** (p. 344) (genotype) Namurian Czechoslovakia, M. **Vašiček** & B. **Růžička** (2).

†*Ceratobulimina aegyptiaca* **sp. n.** (p. 83) Cretaceous, Egypt, R. **Said** & A. **Kenawy.**

†*Chiloguembelina midwayensis* **subspp. n.** *strombiformis, subcylindrica* (p. 90); *C. parallela* **sp. n.** (p. 91); *C. subtriangularis, victoriana* **spp. n.** (p. 91); Lower Tertiary, Trinidad, J. P. **Beckmann.**

†*Chilostomelloides blanchardi* **sp. n.** (p. 51) Miocene, France, V. **Sacal** & A. **Debourle.**

Chrysalidinella spectabilis **sp. n.** (p. 256) Californian coast, J. A. **Cushman** & J. **McCulloch.**

†*Cibicides* Montfort 1808; status thereof (p. 45): *C. cassivellauni* **sp. n.** (p. 47); *C. c.* **var. n.** *buximargo* (p. 48); *C. cantii* **sp. n.** (p. 50); Eocene, England, [authorship to Haynes in all cases], A. **Wood** & J. **Haynes**; *C. advenum* **var. n.** *cinctum* (p. 188) Western Approaches, Atlantic, Y. **Le Calvez** (2); *C. cajiranensis* **sp. n.** (p. 46) Tertiary, Colombia, L. E. **Becker** & A. N. **Dusenbury**; *C. coalingensis* **var. n.** *minor* (p. 196;)

C. eponidiformis **var. n.** *carinata* (p. 193); *C. kleinpelli* **sp. n.** (p. 193); *C. martinezensis* **var. n.** *malloryi* (p. 193); *C. ouachitaensis* **var. n.** *alhambrensis* (p. 194); *C. pachecoensis* **sp. n.** (p. 194); Palaeogene, California, B. Y. **Smith;** *C. datensis* **sp. n.** (p. 511); *C. isazawensis* sp. n. (p. 512) Miocene, Japan, Y. **Fujita** & S. **Ito;** *C. floridanus* (Cushman) **var. n.** *suturatus* (p. 265) Miocene, Italy, P. **Ascoli (2);** *C. kismartonensis* (p. 218) Miocene; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & L. **Majzon;** *C. pirabensis* **sp. n.** (p. 75), Miocene, Brazil, D. **Petri;** *C. subbosqueti* **sp. n.** (p. 95) Cretaceous, Western Europe, J. **Hofker (15);** *C. succedens* **sp. n.** (p. 96); *C. s.* **var. n.** *rigida* (p. 96); *C. suzakensis* **sp. n.** (p. 99); Tertiary, Russia, N. V. **Bykova;** *C.* (*Cibicidina*) *cunobelini* **sp. n.** (p. 51) Eocene, England [authorship to Haynes] A. **Wood** & J. **Haynes.**

†*Cibicidina paraensis* **sp. n.** (p. 73), Miocene, Brazil, S. **Petri.**

†*Cibicidoides durhami* **sp. n.** (p. 196) Palaeogene, California, B. Y. **Smith.**

†*Cincoriola* **nom. n.** (p. 103) [for *Punjabia* Haque 1956 (*non* Eames 1952)] A. F. M. M. **Hague.**

†*Clavigerinella* **gen. n.** *akersi* **sp. n.** (p. 30) (genotype) Eocene, Trinidad, H. M. **Bolli,** A. R. **Loeblich** & H. **Tappan.**

†*Clavulina subangularis* Ishizaki; re-determined as *Clavulinoides* L-S. **Chang** (7)

†*Clavulinoides hofkeri* **sp. n.** (p. 237); *C. filiformis* **sp. n.** (p. 238) Cretaceous, Belgium, P. **Marie (1).**

†*Climacammina ussuriensis* **sp. n.** (p. 1167) [*nom. nud.*] Carboniferous, Russia, A. J. **Zhamoida,** N. S. **Podgornaia,** & M. I. **Sosnina.**

†*Cochleatina* **gen. n.** (p. 12) *plavinensis* **sp. n.** (p. 13) (genotype) Lower Palaeozoic, Russia, E. V. **Bykova.**

†*Colomia* Cushman & Bermudez 1948; status thereof, J. **Hofker (19).**

†*Conicospirillina basiliensis* Mohler; systematic position thereof, C. **Perrot** & J. **Sigal;** *C. planorbis* **sp. n.** (p. 266) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3).**

†*Conorbella americana* **sp. n.** (p. 62), Miocene, Brazil, S. **Petri.**

†*Conorbitoides* **gen n.** (p. 173) *cristalensis* **sp. n.** (p. 174) (genotype) Upper Cretaceous, Cuba, P. **Bronnimann (5).**

†*Coronella* **gen. n.** (p. 280) *austriaca* **sp. n.** (p. 281) (genotype) Rhaetic, Austria, E. **Kristan.**

†*Coskinolinoides jamaicensis* **sp. n.** (p. 216) Eocene, Jamacia, W. S. **Cole (1).**

†*Coscinophragma*; status thereof, W. **Maync (1).**

†*Cribroendothyra* **gen. n.** (p. 47) Carboniferous, Russia, N. S. **Lebedeva.**

†*Cristellaria münsteri* **var. n.** *belorussica* (p. 222); *C. brestica* **sp. n.** (p. 223) Mesozoic, Russia, I V. **Mityanina;** *C. subcultrata* **sp. n.** (p. 189) Jurassic, Russia, E. V. **Mamontova;** *C. wetherellii* Jones 1852; status thereof, M. J. **Hughes;** *C.* (*Astacolus*) *uriyica* **sp. n.** (p. 198); *C.* (*A.*) *subpileolus* **sp. n.** (p. 200); *C.* (*A.*) *krimholzi* **sp. n.** (p. 201); *C.* (*A.*) *subovalis* **sp. n.** (p. 203); Jurassic, Russia, E. V. **Mamontova;** *C.* (*Lenticulina*) *psekentschiensis* **nom. n.** (p. 193), Jurassic Russia, E. V. **Mamontova.**

†*Cruciloculina asanoi* **sp. n.** (p. 233) Recent, Caribbean; *C. ericsoni* **sp. n.** (p. 234) Irish coast; *C. striata* **sp. n.** (p. 234) Caribbean; A. R. **Loeblich** & H. **Tappan (5).**

†*Ctenorbitoides* **gen. n.** *cardwelli* **sp. n.** (p. 171) (genotype) Upper Cretaceous, Cuba, P. **Bronnimann (5).**

†*Cuneolina hensoni* **sp. n.** (p. 98) Cretaceous, France, F. **Dalbiez.**

†*Cushmanella nitida* **sp. n.** (p. 195) Miocene, Austria, A. **Tollmann.**

†*Cyclammina challinori* **sp. n.** (p. 60) Eocene, England, J. **Haynes (2);** *C. pacifica* **var. n.** *kushiroensis* (p. 65), Palaeogene, Japan, S. **Yoshida;** *C. pozoensis, verdunensis* **spp. n.** (p. 84) Eocene Peru, E. W. **Berry.**

†*Daixina* **gen. n.** (p. 67) *ruzhencevi* **sp. n.** (p. 68) (genotype); *D. sokensis* (Rauser-Chernoussova) **var. n.** *urulica* (p. 69); Upper Palaeozoic, Russia, S. E. **Rozovskaia.**

†*Darbyella macfadyeni* **sp. n.** (p. 517) Cretaceous, England, H. **Bartenstein** (5).

†*Deckerella cylindrica* **sp. n.** (p. 374) Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Dentalina catenula* **subsp. n.** *danica* (p. 77); *D. vistulae* **sp. n.** (p. 89); Cretaceous, Poland, K. **Pozaryska;** *D.* ? *dettermani* **sp. n.** (p. 215) Cretaceous, Alaska, H. **Tappan;** *D. kaicherae* **sp. n.** (p. 328) Miocene, Virginia, J. D. **McLean** (1); *D. lorneiana* **var. n.** *semisulcata* (p. 67) Eocene, England, J. Haynes (2); *D. spinosa* **var. n.** *ornatior* (p. 165) Palaeogene, California, B. Y. **Smith;** *D. tappanae* **sp. n.** (p. 42) Cretaceous, Egypt, R. **Said** & M. G. **Barakat** (1).

†*Dictyoconus reicheli* **sp. n.** (p. 141) Cretaceous, Alps, H. **Guillaume.**

†*Discocyclina*; status thereof, K. N. **Sachs;** *D. daguini* **sp. n.** (p. 53) (*nom. nud.*) Eocene, France, M. **Neumann;** *D.* (*Discocyclina*) *indopacifica* **sp. n.** (p. 82) Kainozoic, Micronesia, S. **Hanzawa** (2).

†*Discopulvinulina pirabensis* **sp. n.** (p. 60), Miocene, Brazil, S. **Petri.**

†*Discorbis beadnelli* **sp. n.** (p. 44) Cretaceous, Egypt, R. **Said** & M. G. **Barakat** (1); *D. celsa* **sp. n.** (p. 299) Eocene; *D. fulva* **sp. n.** (p. 299) Saipan lagoon; Saipan R. **Todd** (5); *D. conica* **sp. n.** (p. 510); *D. yanagawensis* **sp. n.** (p. 511) Miocene, Japan, Y. **Fujita** & S. **Ito;** *D. kerekegyensis* (p. 217) Miocene; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & L. **Majzon;** *D. minutus, turonicus* **spp. n.** (p. 83) Cretaceous, Egypt, R. **Said** & A. **Kenawy;** *D. paraensis* **sp. n.** (p. 60), Miocene, Brazil, S. **Petri;** *D. pentaceratus* **sp. n.** (p. 229) Tertiary, Central Europe, N. V. **Dabaghyan,** E. V. **Myatlyuk,** & L. S. **Pishvanova;** *D. rehderi* **sp. n.** (p. 353), Miocene, Virginia, J. D. **McLean** (1).

†*Dorothia chandlerensis* **sp. n.** (p. 208) Cretaceous, Alaska, H. **Tappan;** *D. compacta* **sp. n.** (p. 299) Eocene, Saipan, R. **Todd** (5); *D. terquemi* **sp. n.** (p. 244) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3); *D. textularioides* **sp. n.** (p. 239) Cretaceous, Belgium, P. **Marie** (1).

†*Duotaxis* **gen. n.** (p. 294) *metula* **sp. n.** (p. 295) (genotype) Rhaetic, Austria, E. **Kristan.**

†*Dutkevichella* **gen. n.** (p. 460), Upper Palaeozoic, Russia, F. S. **Pumrya.**

Eggerella humboldti **sp. n.** (p. 26) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann.**

†Eggerellidae **fam. n.** (p. 35), J. **Hofker** (15).

†*Elphidiella* ? *brunnescens, ustulatum* **spp. n.** (p. 230) Neogene, Alaska, R. **Todd** (6); *E. nagasi*; varieties thereof, K. **Asano** (1).

†Elphidiidae; systematics thereof, M. **Wade.**

†*Elphidium*, systematics thereof, W. S. **Cole** (2).

†*Elphidium consociatum* **sp. n.** (p. 53); *E. concinnum* **sp. n.** (p. 64); *E. c.* **var. n.** *stellata* (p. 64); *E. manibulum* **sp. n.** (p. 65); *E. stelliferum, zeivensis* **spp. n.** (p. 66); *E. inopinatum* **sp. n.** (p. 67) Palaeogene, Russia, D. M. **Khalilov** (2); *E. formosum* **sp. n.** (p. 299); *E. hyalocostatum* **sp. n.** (p. 300); Saipan lagoon, R. **Todd** (5); *E. hadleyana* **sp. n.** (p. 116) Tertiary, Mozambique, Y. H. **Smitter** (2); *E. johnstonae, kaicherae* **spp. n.** (p. 343), Miocene, Virginia, J. D. **Mclean** (1); *E. semiinvolutum* **sp. n.** (p. 228) Tertiary, Central Europe, N. V. **Dabaghyan,** E. V. **Myatlyuk,** & L. S. **Pishvanova;** *E. strattoni* **var. n.** *joaquinensis* (p. 55) Pliocene, California, O. L. **Bandy** & R. E. **Arnal** (2).

†*Enantioamphicoryna* **gen. n.** *obesa* **sp. n.** (p. 243) (genotype) Cretaceous, Belgium, P. **Marie** (1).

†*Endothyra* Phillips 1843; status thereof, J. **St. Jean** jr; *E. communis* **var. n.** *umbilicata* (p. 43); *E. konensis* **sp. n.** (p. 44); *E. klubovi, tengisica* **spp. n.** (p. 45); Carboniferous, Russia, N. S. **Lebedeva;** *E. hamula* **sp. n.**

(p. 802) ;*E.* ? *lanceolata* **sp. n.** (p. 800); Carboniferous, Utah, R. B. **Woodland;** *E. prodigiosa* **sp. n.** (p. 973) Carboniferous, New Mexico, A. K. **Armstrong;** *E. taedia* **sp. n.** (p. 700); *E. disca, symmetrica* **spp. n.** (p. 701); *E. spiroides, utahensis, macra* **spp. n.** (p. 702); Lower Carboniferous, U.S.A., E. J. **Zeller;** *E. tortilis* **sp. n.** (p. 27); *E. kennethi* **sp. n.** (p. 28); *E. teres* **sp. n.** (p. 29); Carboniferous, Indiana, J. **St. Jean** jr.

†*Endothyranella graciosa* **sp. n.** (p. 370) Upper Palaeozoic, Russia, F. S. **Pumrya;** *E. pugnoidea* **sp. n.** (p. 32) Carboniferous, Indiana, J. **St. Jean** jr.

†*Entosolenia orbignyana* **var. n.** *miocenica* (p. 49) Miocene, Italy, F. **Ferasin.**

†*Eoassilina* **gen. n.** (p. 210) *elliptica* **sp. n.** (p. 211) (genotype) Cocene, India, S. N. **Singh (3).**

†*Eofusulina binominata* **sp. n.** (p. 457) Upper Palaeozoic, Russia, F. S. **Pumrya;** *E.* (*Paraeofusulina*) **subgen. n.** (p. 458) *triangulifórmis* **sp. n.** (p. 458) (**subgenotype**); *E.* (*P.*). *subtilissima* **sp. n.** (p. 459); Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Eohastigerinella* **gen. n.** (p. 1112) (genotype *Hastigerinella watersi* Cushman 1931) Upper Cretaceous and Eocene, V. G. **Morozova (1).**

†*Eorupertia bermudezi* **sp. n.** (p. 2) Eocene, Cuba, H. W. **Anisgard.**

†*Eostaffella depressa* **sp. n.** (p. 380), Upper Palaeozoic, Russia, F. S. **Pumrya;** *E. minutissima* **var. n.** *crassa* (p. 161); *E. inflata* **sp. n.** (p. 164); Carboniferous, Russia, V. K. **Gholubtzov (2);** *E. umbilicata* **sp. n.** (p. 1167) [*nom. nud.*] Carboniferous, Russia, A. I. **Zhamoida,** N. S. **Podgornaia,** & M. I. **Sosnina.**

†*Epistomina depressa* **sp. n.** (p. 267) Jurassic Egypt, R. **Said** & M. G. **Barakat (3);** *E. zuluensis* **sp. n.** (p. 199) Cretaceous, Zululand, Y. H. **Smitter (3);** *E.* [*Brotzenia*] *hechti* **sp. n.** (p. 46) Cretaceous, Trinidad, H. **Bartenstein,** F. **Bettenstaedt** & H. M. **Bolli.**

Epistominella levicula **sp. n.** (p. 304) Santa Cruz Basin, California, J. M. **Resig.** *E. obesa* **sp. n.** (p. 56); off Central America, O. L. **Bandy** & R. E. **Arnal (2).**

†*Eponides lodoensis* **var. n.** *martini* (p. 182) Palaeogene, California, B. Y. **Smith;** *E. morani* **sp. n.** (p. 219) Cretaceous, Alaska, H. **Tappan;** *E. oldsmarensis* **sp. n.** (p. 144) Eocene, Florida, H. L. **Levin;** *E. pseudoaffinis* **sp. n.** (p. 56) Tertiary, California, O. L. **Bandy** & R. E. **Arnal (2);** *E. saginaris* **sp. n.** (p. 80) Tertiary, Russia, N. V. **Bykova.**

†*Eurycheilostoma* **gen. n.** (p. 228) *altispira* **sp. n.** (p. 229) (genotype) Cretaceous, Texas, A. R. **Loeblich** & H. **Tappan (5);** *E. grandstandensis* **sp. n.** (p. 217); *E. robinsonae* **sp. n.** (p. 218); Cretaceous, Alaska, H. **Tappan.**

†*Fabularia verseyi* **sp. n.** (p. 219) Eocene, Jamaica, W. S. **Cole (1).**

†*Fairliella* **gen. n.** (p. 555) *dicantha* **sp. n.** (p. 556) (genotype); *F. carmani* **sp. n.** (p. 556); *F. discoidea, lameyi* **spp. n.** (p. 557); Devonian, Ohio, C. H. **Summerson.**

†*Falsocibicides* **gen. n.** *aquitanicus* **sp. n.** (p. 117) Eocene, France, A. **Poignant.**

†*Falsopalmula*; systematics thereof, H. **Bartenstein (1);** *F. voorthuyseni* **sp. n.** (p. 149) Cretaceous, Western Europe, J. **Hofker (15).**

Favocassidulina **gen. n.** (p. 230) (genotype *Pulvinulina favus* Brady 1877) Pacific, A. R. **Loeblich** & H. **Tappan (5).**

†*Feurtillia* **gen. n.** (p. 1) *frequens* **sp. n.** (pl 2) Mesozoic, Switzerland, W. **Maync (2).**

Fissurina agassizi **sp. n.** (p. 36) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann;** *F. depressula* **sp. n.** (p. 46), Miocene, Brazil, S. **Petri;** *F. szobensis* (p. 217) Miocene; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & L. **Majzon.**

†*Flabellammina* Cushman; emendation thereof (p. 29), J. **Hofker (15);** *F. aegyptica* **sp. n.** (p. 40); *F. macfadyeni* **sp. n.** (p. 41); Cretaceous, Egypt, R. **Said** & M. G. **Barakat (1).**

†*Flabellina*; systematics thereof, H. **Bartenstein (1)**; *F. toarciensis* **sp. n.** (p. 206) Jurassic, Russia, E. V. **Mamontova.**

†*Flabellinella duestensis, hannoverana* **spp. n.** (p. 184) Lower Cretaceous, Germany, H. **Bartenstein (1).**

†*Flectospira* **gen. n.** *prima* **sp. n.** (p. 76) (genotype) Permian, Australia, I. **Crespin** & J. **Belford.**

†*Flosculina sicula* **sp. n.** (p. 5); *F. silvestri* **sp. n.** (p. 6); Eocene, Italy, T. fe **Stefani (2).**

†*Forschia mikhailovi* **nom. n.** (p. 39) (for *Forschia ? subangulata* Mikhailov (non Moeller)) Carboniferous, Russia, L. G. **Dain.**

†*Forchiella ampla* **sp. n.** (p. 41) Carboniferous, Russia, L. G. **Dain.**

†Forschiinae subfam. n. (p. 38) Carboniferous, Russia, L. G. **Dain.**

†*Frondicularia*; systematics thereof, J. **Barnard (1)**; *F. aclissima* **sp. n.** (p. 134); *F. kasimiri* **sp. n.** (p. 146) Cretaceous, Poland, K. **Pozaryska**; *F. elegans* **sp. n.** (p. 187); F. *cubanica, rhombiprimis* **spp. n.** (p. 188); Jurassic, Russia, E. V. **Mamontova**; *F. fridi* **sp. n.** (p. 1.) Paleocene, Virginia, J. D. **McLean (2).**

†*Frumentella* **gen. n.** (p. 1055) *exampla* **sp. n.** (p. 1056) (genotype) Pennsylvanian, Texas, W. J. **Stewart.**

†*Fusiella texana* **sp. n.** (p. 1055) Pennsylvanian, Texas, W. J. **Stewart.**

†*Fusulina subdistenta* **sp. n.** (p. 438); *F. septata* **sp. n.** (p. 440); *F. ellipsiformis* **sp. n.** (p. 442); *F. grigorovichi* **sp. n.** (p. 444); *F. pseudokayi* **sp. n.** (p. 449); *F. angusta* **sp. n.** (p. 450); *F. isvariensis* **sp. n.** (p. 451); *F. rossoschanica* **var. n.** *grandis* (p. 454); Upper Palaeozoic, Russia, F. S. **Pumrya**; *F. whitakeri* **sp. n.** (p. 1059); *F. brazosensis* **sp. n.** (p. 1061); *F. valida* **sp. n.** (p. 1062); *F. vintonensis* **sp. n.** (p. 1064); *F. bellatula* **sp. n.** (p. 1065); *F. gordonensis* **sp. n.** (p. 1067); *F. capensis* **sp. n.** (p. 1068); Pennsylvanian, Texas, W. J. **Stewart.**

†*Fusulinella bradoserae* **sp. n.** (p. 182) Carboniferous, Spain, A. C. van **Ginkel (1)**; *F. paraiowaensis* **sp. n.** (p. 425); *F. subpulchra* **var. n.** *submesopachis* (p. 427); *F. pseudocolaniae* **sp.n.** (p. 429); Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Galea* **gen. n.** (p. 291) *tollmanni* **sp. n.** (p. 291) (genotype) Rhaetic, Austria, E. **Kristan.**

†*Ganella neumannae* **var. n.** *exponens* (p. 335) Eocene, France, G. **Aurouze** & D. **Boulanger.**

†*Garantella rudia* **sp. n.** (p. 160) Mesozoic, Ukraine, O. K. **Kaptarenko-Chernoussova (1).**

†*Gaudryina hayasakai* **sp. n.** (p. 106) Oligocene, Taiwan, L. S. **Chang (3)**; *G. kerekhegyensis* (p. 217) Miocene; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & **L. Majzon**; *G. tazaensis* **nom. n.** (p. 20) (for *G. inflata* Carbonnier (*non* Israelsky 1951)) A. **Carbonnier**; *G.* (*Pseudogaudryina*) *kokuseiensis* Ishizaki; emendation thereof (p. 59), L. S. **Chang (2).** *G.* (*Siphogaudryina*) *pachecoensis* **sp. n.** (p. 152) Palaeogene, California, B. Y. **Smith.**

†*Gaudryinella tealbyensis* **sp. n.** (p. 513) Cretaceous, England, H. **Bartenstein (5).**

†*Gavelinella danica* (Brotzen); status thereof, J. **Hofker (16)**; *G. ventroplana* **sp. n.** (p. 314); *G. involuta* **sp. n.** (p. 315) Cretaceous, Western Europe, J. **Hofker (15).**

†*Gavelinopsis infracretacea* **sp. n.** (p. 320); *G. ventricosa* **sp. n.** (p. 337) Cretaceous, Western Europe, J. **Hofker (15)**; *G. ? pseudobaccata* **sp. n.** (p. 83) Cretaceous, Egypt, R. **Said** & A. **Kenawy.**

†*Geinitzina tenera* **subsp. n.** *substriata* (p. 333); *G. t.* **subsp. n.** *tenuistriata* (p. 334); *G. t.* **subspp. n.** *pupoides, praepupa* (p. 338); *G. t.* **subsp. n.** *carinata* (p. 340); Lias, Denmark, A. **Nørvang (2).**

†*Globigerapsis* **gen. n.** (p. 33) *kugleri* **sp. n.** (p. 34) (genotype) Eocene, Trinidad, H. M. **Bolli**, A. R. **Loeblich** & H. **Tappan.**

†*Globigerina*, systematics thereof, H. M. **Bolli (3)**; *G. ampliapertura, parva* **spp. n.** (p. 108); *G. ciperoensis* **subspp. n.** *angulisuturalis, angustiumbilicata* (p. 109) *G. rohri* **sp. n.** (p. 109); *G. juvenilis* **sp. n.** (p. 110); *G. foliata*

sp. n. (p. 111); Tertiary, Trinidad, H. M. **Bolli** (**4**); *G. boweri* **sp. n.** (p. 163) Eocene, Trinidad, H. M. **Bolli** (**5**); *G. chascanona* **sp. n.** (p. 180) Tertiary, Alabama, U.S.A., A. R. **Loeblich** & H. **Tappan** (**3**); *G. daubjergensis* **sp. n.** (p. 340) Cretaceous, Denmark, P. **Bronnimann** (**1**); *G. eximia* **sp. n.** (p. 300) Miocene; *G.* ? *grata* **sp. n.** (p. 300) Oligocene; *G. nepenthes* **sp. n.** (p. 301) Miocene; *G. pera* **sp. n.** (p. 301) Eocene; Saipan, R. **Todd** (**5**); *G. spiralis* **sp. n.** (p. 70); *G. soldadoensis* **subsp. n.** *angulosa* (p. 71); *G. prolata* (**sp. n.** (p. 72) [includes *G. pseudobulloides* Bronnimann (*non* Plummer 1926)] Lower Tertiary, Trinidad, H. M. **Bolli** (**3**).

†Globigerinidae Carpenter, Parker and Jones; status thereof, A. N. **Dusenbury.**

†Globigerinidae; systematics thereof, V. G. **Morozova** (**1**).

†Globigerinidea **superfam. n.** (p. 1110), V. G. **Morozova** (**1**). *Globigerinita* Bronnimann; emendation thereof, (p. 112); *G. parkerae* **sp. n.** (p. 113) [includes *Globigerina lamellosa* Terquem of Rhumbler 1909] Recent, A. R. **Loeblich** & H. **Tappan** (**8**).

†*Globigerinoides higginsi* **sp. n.** (p. 164) Eocene, Trinidad, H. M. **Bolli** (**5**); *G. mitra* **sp. n.** (p. 302) Miocene; *G. pseudorubra* **sp. n.** (p. 303) Oligocene; Saipan, R. **Todd** (**5**); *G. triloba* **subsp. n.** *altiapertura* (p. 113); *G. obliqua* **sp. n.** (p. 113); *G. diminuta* **sp. n.** (p. 114) Tertiary, Trinidad, H. M. **Bolli** (**4**).

†*Globobulimina ovata* **sp. n.** (p. 508) Miocene, Japan, Y. **Fujita** & S. **Ito.**

†*Globoquadrina altispira* **subsp. n.** *globosa* (p. 111) Tertiary, Trinidad, H. M. **Bolli** (**4**).

†*Globorotalia*, systematics thereof, H. M. **Bolli** (**3**); *G. apanthesma* **sp. n.** (p. 187); *G. hispidicidaris* **sp. n.** (p. 190); *G. irrorata, occlusa, perclara* **spp. n.** (p. 191); *G. reissi* **sp. n.** (p. 194), *G. strabocella, tribulosa, trichotrocha* **spp. n.** (p. 195); *G. troelseni* **sp. n.** (p. 196); Tertiary, U.S.A., A. R. **Loeblich** & H. **Tappan** (**3**); *G. californica* **sp. n.** (p. 190) Palaeogene, California, B. Y. **Smith**; *G. fohsi* **subsp. n.** *andina* (p. 62) Oligocene, Columbia, H. **Bürgl**; *G. opima* **sp. n.** (p. 117); *G. o.* **subsp. n.** *opima* (p. 117); *G. o.* **subsp. n.** *nana* (p. 118); *G. kugleri* **sp. n.** (p. 118); *G. obesa, minutissima, archeomenardii,* **spp. n.** (p. 119); *G. lenguaensis* **sp. n.** (p. 120) Tertiary, Trinidad, H. M. **Bolli** (**4**); *G. praetuberculifera* **sp. n.** (p. 59) Cretaceous, Holland, J. **Hofker** (**7**); *G. pseudomayeri, bullbrooki* **spp. n.** (p. 167); *G. renzi* **sp. n.** (p. 168) Eocene, Trinidad, H. M. **Bolli** (**5**); *G. tadjikistanensis* **sp. n.** (p. 86) Tertiary, Russia, N. V. **Bykova**; *G. trinidadensis* **sp. n.** (p. 73); *G. uncinata* **sp. n.** (p. 74); *G. angulata* **subsp. n.** *abundocamerata* (p. 74); *G. formosa* **sp. n.** (p. 75); *G. f.* **subsp. n.** *gracilis* (p. 75); *G. f.* **subsp. n.** *formosa* (p. 76); *G. ehrenbergi* **sp. n.** (p. 77) [for *G. membranacea* (Ehrenberg) White 1928]; *G. pseudomenardii* **sp. n.** (p. 77); *G. pusilla* **sp. n.** (p. 78); *G. p.* **subsp. n.** *pusilla, laevigata* (p. 78); *G. tortiva* **nom. n.** (p. 78) [for *G. velascoensis* var. *compressa* White 1928]; *G. quetra* **sp. n.** (p. 79) Lower Tertiary, Trinidad, H. M. **Bolli** (**3**).

†Globorotaliidae, systematics thereof, H. M. **Bolli**, A. R. **Loeblich**, & H. **Tappan.**

†Globorotaliidae Cushman 1927; emendation thereof, (p. 129), Z. **Reiss** (**2**).

†Globorotaliinae **subfam. n.** (p. 130); systematics thereof, Z. **Reiss** (**2**).

†*Globorotalites alaskensis* **sp. n.** (p. 220) Cretaceous, Alaska, H. **Tappan**; *G. brotzeni* **sp. n.** (p. 403) Cretaceous, Western Europe, J. **Hofker** (**15**).

†*Globorotaloides* **gen. n.** *variabilis* **sp. n.** (p. 117) (genotype); *G. suteri* **sp. n.** (p. 117) Tertiary, Trinidad, H. M. **Bolli** (**4**).

†*Globotruncana*; systematics thereof, H. S. **Edgell**; *G. intermedia* **subsp. n.** *difformis* (p. 49); *G. contusa* **subspp. n.** *scutilla, patelliformis* (p. 54); *G. thalmanni* **subsp. n.** *thalmanni* (p. 60); *G. thalmanni* **sp. n.** (p. 60); *G. bolli* **sp. n.** (p. 62); *G. arca* **subsp. n.** *caribica* (p. 64); *G. stuarti* **subsp. n.** *parva* (p. 65); *G. rosetta* **subsp. n.** *insignis* (p. 67); *G. r.* **subsp. n.**

pettersi (p. 68); *G. gansseri* **subsp. n.** *subgansseri* (p. 70); *G. wiedenmayeri* **sp. n.** (p. 71); *G. w.* **subsp. n.** *wiedenmayeri* (p. 71; *G. w.* **subsp. n.** *magdalenaensis* (p. 72); Cretaceous, Columbia, R. **Gandolfi (1)**; *G. lapparenti* **subsp. n.** *longilocula* (p. 17); *G. tricarinata* **subsp. n.** *colombiana* (p. 20); *G. t.* **subsp. n.** *desioi* (p. 21); *G. marginata* **subsp. n.** *austinensis* (p. 29); *G. bulloides* **sp. n.** (p. 34); *G. b.* **subsp. n.** *naussi* (p. 34); *G. mariai* **nom. n.** (p. 35); *G. fornicata* **subsp. n.** *manaurensis* (p. 41); *G. f.* **subsp. n.** *plummerae* (p. 42); *G. f.* **subsp. n.** *ackermanni* (p. 42); *G. f.* **subsp. n.** *cesarensis* (p. 45); *G. caliciformis* **subsp. n.** *trinidadensis* (p. 47); *G. c.* **subsp. n.** *sarmientoi* (p. 47); Cretaceous, Colombia, R. **Gandolfi (1)**; *G. linneiformis* **sp. n.** (p. 326); *G. aspera, pura* **spp. n.** (p. 327) Cretaceous, Western Europe, J. **Hofker (1)**; *G. majzoni* **sp. n.** (p. 62) Cretaceous, France, V. **Sacal** & A. **Debourle**; *G. repanda* **sp. n.** (p. 56); *G. inornata* **sp. n.** (p. 57); *G. wilsoni* **sp. n.** (p. 58); Cretaceous, Trinidad, H. M. **Bolli (2)**; *G.* (*Globotruncana*) *coldreriensis* **nom. n.** (p. 64) (for *G. renzi* Gandolfi (*non* Thalmann) Cretaceous, R. **Gandolfi (2)**; *G.* (*Globotruncana*) *planata* **sp. n.** (p. 115) Cretaceous, Australia, H. S. **Edgell**; *G.* (*Rotalipora*) *apenninica* **subsp. n.** *balernaensis* (p. 60) Cretaceous, Switzerland, R. **Gandolfi (2)**; *G.* (*Rotalipora*) *micheli* **sp. n.** (p. 58) Cretaceous, France, V. **Sacal** & A. **Debourle**; *G.* (*Thalmanninella*) *ticinensis* **subsp. n.** *subticinensis* (p. 59) Cretaceous, Switzerland, R. **Gandolfi (2)**.

†*Globotruncanella* **gen. n.** (p. 135) (genotype *Globotruncana citae* Bolli 1951) Cretaceous, Z. **Reiss (2)**.

†Globotruncanidae; systematics thereof, P. **Bronnimann** & N. K. **Brown (1) (2)**; H. M. **Bolli**, A. K. **Loeblich** & H. **Tappan**.

†Globotruncanidae **fam. n.** (p. 1111). V. G. **Morozova (1)**.

†Globotruncaninae **subfam. n.** (p. 318) Cretaceous, J. **Hofker (1)**.

†Globotruncaniinae Brotzen 1942; emendation thereof, (p. 130), Z. **Reiss (2)**.

†*Globotruncanita* **gen. n.** (p. 136) (genotype *Rosalina stuarti* de Lapparent 1918) Cretaceous, Z. **Reiss (2)**.

†*Globulina gibba* **var. n.** *hollandi* (p. 9) Eocene, England, J. **Haynes (1)**; *G. obesa* **sp. n.** (p. 245) Cretaceous, Belgium, P. **Marie (1)**; *G. tropicale* **sp. n.** (p. 50), Miocene, Brazil, S. **Petri**.

†*Glomospira compacta, jurassica* **spp. n.** (p. 240) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3)**.

†*Glomospiranella* **gen. n.** (p. 21) (authorship to Lipina) (*G. asiatica* Lipina cited as genotype); *G. rauserae* **sp. n.** (p. 23); *G. endothyroides* **sp. n.** (p. 24); *G. e.* **var. n.** *endothyroides* (p. 25); *G. e.* **var. n.** *quadriloba* (p. 25); *G. asiatica* **sp. n.** (p. 25) (authorship to Lipina); *G. glebovskayse* **sp. n.** (p. 26); Carboniferous, Russia, L. G. **Dain**.

†*Glomospirella woodi* **sp. n.** (p. 59) Eocene, England, J. **Haynes (2)**.

†*Granuliferella* **gen. n.** (p. 694) *granulosa* **sp. n.** (p. 695) (genotype): *G. plectula* **sp. n.** (p. 695); *G. tumida* **sp. n.** (p. 696); Lower Carboniferous, U.S.A., E. J. **Zeller**; *G. asperata* **sp. n.** (p. 797); *G.? granulella* **sp. n.** (p. 797); Carboniferous, Utah, R. B. **Woodland**.

†Guembelitriinae **subfam. n.** (p. 136), E. M. **Gallitelli**.

†*Gümbelina tenuis* **sp. n.** (p. 303) Eocene; Saipan, R. **Todd (5)**.

†*Guttulina lactea* **var. n.** *elongata* (p. 5): *G. woodi* **sp. n.** (p. 5) Eocene, England, J. **Haynes (1)**; *G. palmerae* **sp. n.** (p. 333); *G. pseudocostatula* **sp. n.** (p. 334); Miocene, Virginia, J. D. **McLean (1)**; *G. pyramido-caudata* **sp. n.** (p. 246) Cretaceous, Belgium, P. **Marie (1)**; *G. vandenboldi* **sp. n.** (p. 40) Cretaceous, Trinidad, H. **Bartenstein**, F. **Bettenstaedt** & H. M. **Bolli**; *G.* (*Sigmoilina*) *pacifica* **var. n.** *ishizakii* (p. 8) Neogene, Taiwan, L. **Chang (6)**.

†*Gypsina saipanensis, marianensis* **spp. n.** (p. 66) Kainozoic, Micronesia, S. **Hanzawa (2)**.

†*Gyroidina cetera* **sp. n.** (p. 77); *G. depressaeformis* **sp. n.** (p. 78) Tertiary, Russia, N. V. **Bykova**; *G. io* **sp. n.** (p. 304) Santa Cruz Basin,

California, J. M. **Resig**; *G. laciniata* **sp. n.** (p. 219) Miocene; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & L. **Majzon**; *G. longispira* **sp. n.** (p. 253) Pliocene; *G. l.* **var. n.** *miocenica* (p. 254) Miocene; Italy, D. **Tedeschi** & C. **Zanmatti** (5); *G. longispira* **sp. n.** (p. 2); *G. l.* **var. n.** *miocenica* (p. 2) [*nomina nud.*] Kainozoic, Italy, **Anon-AGIP Mineraria** (5); *G. lottensis* **var. n.** *impensa* (p. 144) Eocene, Florida, H. L. **Levin.**

†*Gyroidinoides primitiva* **sp. n.** (p. 393); *G. suturata* **sp. n.** (p. 396); Cretaceous, Western Europe, J. **Hofker** (15).

Haliphysema Bowesbank 1862; redescription thereof, (p. 123); *H. bayeri* **sp. n.** (p. 125); *H. harryi* **sp. n.** (p. 126); Pacific, A. R. **Loeblich** jr. (2).

†Hantkeninidae, systematics thereof; H. M. **Bolli**, A R. **Loeblich** & H. **Tappan.**

†*Haplophragmoides barthouxi* **sp. n.** (p. 240) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3); *H. bonplandi* **sp. n.** (p. 23) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann**; *H. burrowsi* **sp. n.** (p. 59) Eocene, England, J. **Haynes** (2); *H. coahiulaensis* **sp. n.** (p. 65) Cretaceous, Mexico, J. E. **Conkin** & B. M. **Conkin** (1); *H. fistulosus* **sp. n.** (p. 57) Tertiary, Russia, N. K. **Bykova**; *H. gracilis* **sp. n.** (p. 78) Cretaceous, Egypt, R. **Said** & A. **Kenawy**; *H. multiplum* **sp. n.** (p. 37); *H. postis* **sp. n.** (p. 38); *H. spissum* **sp. n.** (p. 39); Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall**; *H. paralius* **sp. n.** (p. 283); *H. regularis* **sp. n.** (p. 284); Cretaceous, Black Hills, Dakota, U.S.A., H. **Skolnick**; *H. topagorukensis* **sp. n.** (p. 203) Cretaceous, Alaska, H. **Tappan**; *H. translucens* **sp. n.** (p. 54) Tertiary, California, O. L. **Bandy** & R. E. **Arnal** (2).

†Hastigerininae **subfam. n.** (p. 29) Eocene to Recent, H. M. **Bolli**, A. R. **Loeblich**, & H. **Tappan.**

†*Hayasakaina? kawadai* **sp. n.** (p. 173) Permian, Japan, H. **Igo** (1).

†*Hastigerinella bermudezi* **sp. n.** (p. 112) Tertiary, Trinidad, H. M. **Bolli** (4).

†*Hedbergella* **nom. n.** (p. 15) [for *Hedbergina* Bronnimann & Brown 1956] Cretaceous, P. **Bronnimann** & N. K. **Brown** jr. (3).

†*Hedbergina* **gen. n.** (p. 529) (genotype *Globigerina seminolensis* Haslton 1927) P. **Bronnimann** & N. K. **Brown** (1).

†*Helenia* **gen. n.** (p. 374) (genotype *Pseudeoponides anderseni* Warren 1957), Recent, Trinidad, J. B. **Saunders** (2).

†*Helvetoglobotruncana* **gen. n.** (p. 137) (genotype *Globotruncana helvetica* Bolli 1945) Cretaceous, Z. **Reiss** (2).

†*Hemigordius pribyli* **sp. n.** (p. 346) Namarian, Czechoslovakia, M. **Vašiček** & B. **Růžička** (2).

†*Hemisphaerammina* **gen. n.** (p. 223) *batalleri* **sp. n.** (p. 224) (genotype) Mesozoic, Spain; *H. bradyi* **sp. n.** (p. 224) [for *Webbina hemisphaerica* Brady 1884 (*non* Jones, Parker & Brady 1866)] A. R. **Loeblich** & H. **Tappan** (5).

†Heterohelicidae, emendation thereof, (p. 136); E. M. **Gallitelli.**

†*Heterosteginoides* Cushman, suppression thereof, (synonym of *Miogypsina* Sacco), S. **Hanzawa** (2).

Hofkerina mediterranea **sp. n.** (p. 150) Mediterranean, G. **Colom** (5).

Hopkinsina hancocki, oceanica **spp. n.** (p. 276) East Pacific [authorship to Todd] J. A. **Cushman** & I. **McCulloch.**

†*Hyperammina elegans* var. *brazhnikovae* **nom. n.** (p. 95) [for *Hpyerammina elegans* var. *minima* Brazhnikova] Carboniferous, Russia, V. K. **Gholubtzov** (2).

†*Hyperamminoides barksdalei* **sp. n.** (p. 202) Cretaceous, Alaska, H. **Tappan.**

†*Illigata* **gen. n.** (p. 21) *annae* **sp. n.** (p. 22) (genotype); *I. mensis* **sp. n.** (p. 22); Lower Palaeozoic, Russia, E. V. **Bykova.**

†*Involutina magharaensis* **sp. n.** (p. 239) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3); *I. mangusi* **sp. n.** (p. 203) Cretaceous, Alaska, H. **Tappan**; *I. pyrotecnica* **sp. n.** (p. 58) Eocene, England, J. **Haynes** (2); *I. turgida* **sp. n.** (p. 275) Rhaetic, Austria, E. **Kristan.**

†*Kanakaia* **gen. n.** *marianensis* **sp. n.** (p. 38) (genotype) Kainozoic, Saipan, S. **Hanzawa** (**2**).

†*Kansanella* **gen. n.** (p. 299) *Kansanella* **subgen. n.** (p. 303) *joensis* **sp. n.** (p. 303) (genotype and subgenotype) Upper Palaeozoic, United States, M. L. **Thompson**; *K.* **gen. n.** (p.299) *Iowanella* **subgen. n.** (p. 301) (genotype *Triticites winterensis* Thompson, Verville, & Lokke 1956) Upper Palaeozoic, United States, M. L. **Thompson.**

†*Karreria fallax;* status therof, J. **Hofker** (**8**).

†*Karreriella shangtaoensis* **sp. n.** (p. 61) Miocene, Taiwan, L. S. **Chang** (**2**).

†*Kilianina* Pfender 1933; systematics thereof, G. **Aurouze** & J. J. **Bizon** (**2**); *K. lata* **sp. n.** (p. 193) Mesozoic, Turkey, R. **Oberhauser** (**1**).

†*Klubovella* **gen. n.** *konensis* **sp. n.** (p. 52) (genotype) Carboniferous, Russia, N. S. **Lebedeva.**

†*Kuglerina* **gen. n.** (p. 557) (genotype *Rugoglobigerina rugosa rotundata* Bronnimann) Cretaceous, P. **Bronnimann** & N. K. **Brown** (**1**).

†*Kwantoella* **gen. n.** (p. 251) *fujimotoi* **sp. n.** (p. 252) (genotype) Permian, Japan, S. **Sakagami** & T. **Omata.**

†*Ladoronia* **subgen. n.** (of *Acervulina*) *vermicularis* **sp. n.** (p. 68) (subgenotype) Kainozoic, Saipan, S. **Hanzawa** (**2**).

†*Lagena aranea* **sp. n.** (p. 14); *L. pressula* **sp. n.** (p. 15); *L. glomerosa* **sp. n.** (p. 16); *L. luxa, ventricosa* **spp. n.** (p. 17); *L. tuberosa* **sp. n.** (p. 18); *L. panucella* **sp. n.** (p. 19) Lower Palaeozoic, Russia, E. V. **Bykova**; *L. bulloides* **sp. n.** (p. 44), Miocene, Brazil, S. **Petri**; *L. dorseyae* **sp. n.** (p. 330); *L. globulohispida* **sp. n.** (p. 331); *L. palmerae, pseudosulcata* **spp. n.** (p. 332); Miocene, Virginia, J. D. **McLean** (**1**); *L. hoglundi* **sp. n.** (p. 31) Gulf of Paria, Trindidad, R. **Todd** & P. **Bronnimann**; *L. inornata* **var. n.** *spinescens* (p. 73) Eocene, England, J. **Haynes** (**2**); *L. saccata* **sp. n.** (p. 231) Neogene, Alaska, R. **Tofd** (**6**); *L. tenuicostata* **var. n.** *psekentschiensis* (p. 163) Jurassic, Russia, E. V. **Mamontova**; *L.* (*Entosolenia*) *carteri* **sp. n.** (p. 330); *L.* (*E.*) *c. forma n. alpha* (p. 330); Miocene, Virginia, J. D. **McLean** (**1**); *L.* (*Oolina*) *caudigera* **var. n.** *lemoni* (p. 70) Eocene, England, J. **Haynes** (**2**).

†Lagenidae; systematics theoref, K. **Pozaryska.**

†*Lagenonodosaria suzukii* **sp. n.** (p. 509) Miocene, Japan, Y. **Fujita** & S. **Ito.**

†*Lamarckella media* **sp. n.** (p. 160) Mesozoic, Ukraine, O. K. **Kaptarenko-Chernoussova** (**1**).

†*Lenticulina magharaensis* **sp. n.** (p. 248) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (**3**); *L. muendensis* **sp. n.** (p. 228) Jurassic, Germany, G. P. R. **Martin**; *L.* (*Darbyella*) *irregularis* **sp. n.** (p. 124) Cretaceous, Poland, K. **Pozaryska**; *L.* (*Lenticulina*) *praegaultina* **sp. n.** (p. 24); *L.* (*L.*) *ouachensis* **subsp. n.** *multicella* (p. 26); *L.* (*L.*) *kugleri* **sp. n.** (p. 27); *L.* (*L.*) *barri* **sp. n.** (p. 28); Cretaceous Trinidad, H. **Bartenstein**, F. **Bettenstaedt** & H. M. **Bolli**; *L.* (*Marginulinopsis*) *sigali* **sp. n.** (p. 32) Cretaceous, Trinidad, H. **Bartenstein**, F. **Bettenstaedt** & H. M. **Bolli.**

†*Lepidocyclina;* systematics thereof, W. S. **Cole** (**4**); *L.* (*Eulepidina*) *rotaensis* **sp. n.** (p. 75) Kainozoic, Micronesia, S. **Hanzawa** (**2**).

†*Leupoldina* **gen. n.** (p. 275) *protuberans* **sp. n.** (p. 277) (genotype) Cretaceous, Trinidad, H. M. **Bolli** (**1**).

†*Linderina rajasthanensis* **sp. n.** (p. 21); *L. bikanerensis* **sp. n.** (p. 24); *L. kolayatensis* **sp. n.** (p. 25); *L. kirtharensis* **sp. n.** (p. 26); Eocene, India, S. N. **Singh** (**2**).

†*Lingulina longiscata* **var. n.** *alpha* (p. 224) Lias, England, G. C. **Adams**; *L. minuta* **sp. n.** (p. 259) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (**3**); *L. paucicostala* **sp. n.** (p. 65) Miocene, Taiwan, L. S. **Chang** (**4**); *L. pregradniensis* **sp. n.** (p. 185) Jurassic, Russia, E. V. **Mamontova**; *L. sadeki* **sp. n.** (p. 43) Cretaceous, Egypt, R. **Said** & M. G. **Barakat** (**1**).

†*Lituotuba ambergensis* **sp. n.** (p. 66) Cretaceous, Germany, J. H. **Ziegler** (**2**). †*Lituotubella radaëvkaensis* **sp. n.** (p. 43) Carboniferous, Russia, L. G. **Dain.**

†*Lockhartia*; systematics thereof, *L. daviesi* **sp. n.** (p. 84) Paleocene; *L. ramanae* **sp. n.** (p. 86) Cretaceous; Turkey, A. T. **Dam** (2); *L. gyropapulosa, praealta* **spp. n.** (p. 145) Eocene, Florida, H. L. **Levin**; *L. minuscula* **sp. n.** (p. 427) Cretaceous, Western Europe, J. **Hofker** (15).

†*Loxostomum africanum* **sp. n.** (p. 118) Tertiary, Mozambique, Y. H. **Smitter** (2); *L. latum, vescum* **spp. n.** (p. 304) Eocene, Saipan, R. **Todd** (5); *L. wilsoni* **sp. n.** (p. 348), Miocene, Virginia, J. D. **McLean** (1).

†*Loxostomoides* **gen. n** (p. 241) (genotype *Bolivina applini* Plummer 1927 (*recte B. applinae*)) Cretaceous-Paleocene, Z. **Reiss** (1).

†*Marginotruncana* **gen. n.** (p. 319) (genotype *Rosalina marginata* Reuss); *M. paraventricosa* **sp. n.** (p. 328); *M. pauperata* **sp. n.** (p. 331); Cretaceous, Western Europe, J. **Hofker** (1).

†*Marginulina cherensis* **sp. n.** (p. 2); [*nom. nud.*] Kainozoic, Italy, **Anon-AGIP Mineraria** (5); *M. cherensis* **sp. n.** (p. 247) Pliocene, Italy, D. **Tedeschi** & C. **Zanmatti** (1); *M. gatesi* **sp. n.** (p. 215) Cretaceous, Alaska, H. **Tappan**; *M. prima* **subsp. n.** *praerugosa* (p. 369), Lias, Denmark, A. **Nørvang** (2); *M. wetherellii* Jones 1854; *M. enbornensis* Bowen 1954; status thereof, M. J. **Hughes**.

†*Marginulinopsis goajiraensis, uitpaensis* **spp. n.** (p. 17) Tertiary, Columbia, L. E. **Becker** & A. N. **Dusenbury**.

†*Marssonella jurassica* **sp. n.** (p. 219) Mesozoic, Russia, I. V. **Mityanina**.

†*Massilina hechti* **sp. n.** (p. 433) Cretaceous, Western Europe, J. **Hofker** (15); *M. quadrans* **subsp. n.** *carteri* (p. 325) Miocene, Virginia, J. D. **McLean** (1); *M. rustica* **sp. n.** (p. 305) Saipan lagoon, R. **Todd** (5).

†*Mesoschubertella* **gen. n.** (p. 42) *thompsoni* **sp. n.** (p. 43) (genotype); *M. shimadaniensis* **sp. n.** (p. 44); Permian, Japan, M. **Kanuma** & S. **Sakagami**.

†*Meyendorffina* **gen. n.** *bathonica* **sp. n.** (p. 72) Jurassic, France, G. **Aurouze** & J. J. **Bizon** (2).

†*Miliammina awunensis* **sp. n.** (p. 210); *M. ischnia* **sp. n.** (p. 211); Cretaceous, Alaska, H. **Tappan**; *M. pariaensis* **sp. n.** (p. 26) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann**; *M. petila, telemaquensis* **spp. n.** (p. 87) brackish water, Trinidad, J. B. **Saunders** (3).

†*Miliolina buglovensis* **sp. n.** (p. 343) Miocene, Moldavia, N. **Macarovic**, N. **Pighida**, & B. **Cehan-Ionesi** (2).

Miliolinella microstoma **sp. n.** (p. 35) Louisiana bayou, A. D. **Warren**.

†*Millerella tantillagau* **var. n.** *oricuta* (p. 1167) [*nom. nud.*] Carboniferous, Russia, A. I. **Zhamoida**, N. A. **Podgornaia**, & M. I. **Sosnina**.

†*Miogypsina* (*Lepidosemicyclina*) *droogeri* **sp. n.** (p. 386) [authorship to Mohan & Tewari] Miocene, India, K. **Mohan**; *M.* (*Miogypsina*) *bhogatensis* **sp. n.** (p. 381) Miocene, India, K. **Mohan**.

†*Miogypsinella* Hanzawa, suppression thereof, (synonym of *Miogypsinoides* Yabe & Hanzawa), S. **Hanzawa** (2).

†*Miogypsinita* Drooger, suppression thereof, (synonym of *Miogypsina* Sacco), S. **Hanzawa** (2).

†*Miogypsinoides saipanensis* **sp. n.** (p. 93) Kainozoic, Micronesia, S. **Hanzawa** (2).

†*Miogypsinopsis* Hanzawa, suppression thereof, (synonym of *Miogypsina* Sacco), S. **Hanzawa** (2).

†*Miscellanea*; systematics thereof, W. S. **Cole** (2).

†*Monotaxis gibba* **var. n.** *turris* (p. 143), Carboniferous Russia, V. K. **Gholubtzov** (2).

†*Mstinia orientalis* **sp. n.** (p. 46) (authorship to N. Tchernysheva); *M. tchernyshevi* **sp. n.** (p. 48); Carboniferous, Russia, L. G. **Dain**.

†*Nankinella ovata* **sp. n.** (p. 97) Permian, Crimea, A. D. **Miklukho-Maklai** (2).

†*Nanushukella* **gen. n.** (p. 218) *umiatensis* **sp. n.** (p. 219) (genotype) Cretaceous, Alaska, H. **Tappan**.

†*Neobulimina fraudulenta* **sp. n.** (p. 215) Tertiary, Russia, N. N. **Subbotina.**

†*Neoflabellina;* systematics thereof, H. **Hiltermnan** & W. **Koch (1).**

†*Neofusulinella nana* **sp. n.** (p. 102) Permian, Crimea, A. D. **Miklukho-Maklai (2).**

†*Neoschwagerina;* systematics thereof, K. **Kanmera (2);** *N. sakaguchii* **sp. n.** (p. 237); *N. fujimotoi* **sp. n.** (p. 239); Permian, Japan, N. **Yamagiwa.**

†*Neotrocholina friburgensis* **sp. n.** (p. 285), Mesozoic, Alps, H. **Guillaume** & M. **Reichel.**

†*Nezzazata* Omara 1956; status thereof, Z. **Reiss (3).**

†*Nodogenerina saubriguensis* **sp. n.** (p. 17) Miocene, France, V. **Sacal** & A. **Debourle.**

†*Nodosarella rohri* **sp. n.** (p. 43) Cretaceous, Trinidad, H. **Bartenstein,** F. **Bettenstaedt** & H. M. **Bolli.**

†*Nodosaria corta* **sp. n.** (p. 198) Cretaceous, Zululand, Y. H. **Smitter (3);** *N. deliciae* **var. n.** *muirensis* (p. 167) Palaeogene, California, B. Y. **Smith;** *N. multicostata* **var. n.** *cylindrica* (p. 167); *N. subissleri* **sp. n.** (p. 168); Jurassic, Russia, E. V. **Mamontova;** *N. (?) mediana* **sp. n.** (p. 20) Lower Palaeozoic, Russia, E. V. **Bykova.**

†Nodosariidae; status thereof, A. **Nørvang (2).**

†*Nodosinella brandi* **sp. n.** (p. 239) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3).**

†Nodosinellidae: status thereof, A. **Nørvang (2).**

Nonion affine (Reuss); status and synonymy thereof, E. **Boltovskoy (7);** *N. beadnelli* **sp. n.** (p. 82) Cretaceous, Egypt, R. **Said** & A. **Kenawy;** *N. canecensis* **sp. n.** (p. 51) Miocene, Brazil, S **Petri;** *N. citai* **nom. n.** (p. 54) (for *N. compressum* de Napoli 1952 (*non* Roemer 1841)) E. di N. **Alliata (1);** *N. dalpiazi* **sp. n.** (p. 39) Tertiary, Italy, F. **Ferasin;** *N. erucopsis* **sp. n.** (p. 231) Neogene, Alaska, R. **Todd (6);** *N. jurassicum* **sp. n.** (p. 263) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3);** *N. korneevae* **sp. n.** (p. 225) Tertiary, Central Europe, N. V. **Dabaghyan,** E. V. **Myatlyak** & L. S. **Pishvanova;** *N. kushiroense,* **sp. n.** (p. 65); *N. sorachiense* **var. n.** *konbumoriense* (p. 65); Palaeogene, Japan, S. **Yoshida;** *N. mimica* **sp. n.** (p. 143) Eocene, Florida, H. L. **Levin;** *N. rusticum* **sp. n.** (p. 305) Eocene, Saipan, R. **Todd (5);** *N. saltonensis* **sp. n.** (p. 39) Salton Sea, California, R. E. **Arnal.**

†*Nonionella pirabensis* **sp. n.** (p. 51) Miocene, Brazil, S. **Petri;** *N. tumida* **sp. n.** (p. 46); *N. ilchidajica* **sp. n.** (p. 48); *N. i.* **var. n.** *magna* (p. 48); *N. nonioniformis* **sp. n.** (p. 49); *N. caspia* **sp. n.** (p. 51); *N. sumgaitica* **sp. n.** (p. 52); *N. kirovabedensis* **sp. n.** (p. 53); *N. angusta, schurutensis* **spp. n.** (p. 54); *N. maragaensis* **sp. n.** (p. 55); *N. zeidensis* **sp. n.** (p. 57); *N. azerbaidjanica* **sp. n.** (p. 58); *N. a.* **var. n.** *rectusa* (p. 58); *N. a.* **var. n.** *plana* (p. 59); *N. subazerbaidjanica* **sp. n.** (p. 60); *N. chilmiliensis* **sp. n.** (p. 60); Paleogene, Russia, D. M. **Khalilov (2).**

†*Nummulites*; systematics thereof, E. **Lanterno** & V. **Roveda.**

†*Nummulites asymmetrica* **sp. n.** (p. 209) Eocene, India, S. N. **Singh (3).**

†Nummulitidae; classification thereof, B. T. **Gholev (1).**

†*Nummoloculina* Steinmann 1881; emendation thereof (p. 151); *N. heimi* Bonet 1952, emendation thereof, (p. 152); J. E. **Conkin** & B. M. **Conkin (2).**

†*Nuttallides* Finlay 1939; emendation thereof, (p. 93), D. J. **Belford.**

†*Nuttallina* **gen. n.** (p. 96) *coronula* **sp. n.** (p. 97) (genotype) Cretaceous, Australia, D. J. **Belford.**

†*Oketaella inflata* **sp. n.** (p. 294) [authorship to Thompson & Laiming] Upper Palaeozoic, United States, M. L. **Thompson.**

†*Oolina geometrica* **sp. n.** (p. 305) Eocene, Saipan, R **Todd (5).**

†*Operculinoides;* systtematics hereof, W. S. **Cole (2);** *O. bermudezi* (Palmer); status thereof, K. N. **Sachs.**

†*Orbignyna laffittei* **sp. n.** (p. 235) Cretaceous, Belgium, P. **Marie (1).**

†*Orbulina cornwallisi* **sp. n.** (p. 365), Miocene, Virginia, J. D. **McLean. (1)**

†Orbulinidae Schultze 1854; status thereof, A. N. **Dusenbury.**

†Orbulinidae, systematics thereof; H. M. **Bolli,** A. R. **Loeblich** & H. **Tappan.**

†*Orthomorphina terquemi* **sp. n.** (p. 263) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3).**

†*?Orthovertella subrotundata* **sp. n.** (p. 288); *?O. angulata* **sp. n.** (p. 289); Rhaetic, Austria, E. **Kristan.**

†*Ozawainella minima* **sp. n.** (p. 382); *O. contrasta* **sp. n.** (p. 384); *O. pseudotingi* **sp. n.** (p. 385); *O. umbonoplicata, crassiformis* **spp. n.** (p. 390); Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Paalzowella conica* **sp. n.** (p. 229) Mesozoic, Russia, I. V. **Mityanina.**

†*Palaeotextularia consobrinaeformis* **sp. n.** (p. 125) Carboniferous, Russia, V. K. **Gholubtzov (2);** *P. eogibbosa* **sp. n.** (p. 373) Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Paleogaudryina* **gen. n.** *maghaeraensis* **sp. n.** (p. 243) (genotype) Jurassic, Egypt, R. **Said** & M. J. **Barakat (3).**

†*Pallaimorphina* **gen. n.** (p. 220) *ruckerae* **sp. n.** (p. 221) (genotype) Cretaceous, Alaska, H. **Tappan.**

†*Palmerinella palmerae* Bermudez; status thereof, J. **Hofker (18);** *P.* Bermudez 1934, emendation thereof (p. 370); *P. palmerae palmerae* Bermudez, emendation thereof (p. 371); *P. p.* **subsp. n.** *diminuta* (p. 371), shallow water, Trinidad coast, J. B. **Saunders (2).**

†*Palmula;* systematics thereof, H. **Bartenstein (1).**

†*Parafissurina ? hemisphaerica* **sp. n.** (p. 48) Miocene, Brazil, S. **Petri;** *P. ovalis* **sp. n.** (p. 306) Miocene, Saipan, R. **Todd (5).**

†*Parafusulina antimonioensis* **sp. n.** (p. 115) Permian, Mexico, C. O. **Dunbar (1).**

†*Paramillerella dogbendensis* **sp. n.** p. 1054) Pennsylvanian, Texas, V. J. **Stewart.**

†*Pararotalia* Le Calvez 1949, emendation thereof (p. 6); emendations of *P. armata* (d'Orbigny (p. 9), *P. byramensis* (Cushman) (p. 10), *P. inermis* (Terquem) (p. 14), *P. parva* (Cushman) (p. 16), *P. spinigera* (Le Calvez) (p. 18) *P. subinermis* (Bhatia) (p. 20); *P. calvezae* **sp. n.** (p. 12) Eocene, England; *P. curryi* **sp. n.** (p. 13) Oligocene, England; *P. ishamae* **sp. n.** (p. 15) Palaeogene, America; *P. macneili* **sp. n.** (p. 16) Paleocene, America, A. R. **Loeblich** & H. **Tappan (2);** *P. tuberculifera* (Reuss); status thereof, J. **Hofker (5).**

†*Parastaffella biconvexa* **sp. n.** (p. 176); *P. lenticularis* **sp. n.** (p. 177); Carboniferous, Russia, V. K. **Gholubtzov (2);** *P. gracilis* **sp. n.** (p. 1167) [*nom. nud.*] Carboniferous, Russia, A. I. **Zhamoida,** N. S. **Podgornaia** & M. I. **Sosnina;** *P. grandis* **sp. n.** (p. 393), Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Paratrocholina* **subgen. n.** (p. 196), R. **Oberhauser (1)**—see *Trocholina.*

Paromalina **gen. n.** (p. 230) *bilateralis* **sp. n.** (p. 231) (genotype) Recent, A. R. **Loeblich** & H. **Tappan (5).**

†*Parrellina;* emendation thereof (p. 335); *Parrellina racticulatiformis* **sp. n.** (p. 335) Tertiary, Australia, M. **Wade.**

†*Patellina douvillei* **sp. n.** (p. 266) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3);** *P. elliotti* **sp. n.** (p. 46) Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall.**

†*Pellatispirella;* systematics thereof, W. S. **Cole (2).**

†*Peneroplis turonicus* **sp. n.** (p. 82) Cretaceous, Egypt, R. **Said** & A. **Kenawy.**

†*Planispirina schlumbergeri, striata* Sidebottom 1904: status thereof, J. E. **Conkin** & B. M. **Conkin (2).**

†*Planomalina caseyi* **sp. n.** (p. 24) Cretaceous, England [authorship to Loeblich & Tappan] H. M. **Bolli,** A. R. **Loeblich** & H. **Tappan.**

†Planomalininae **subfam. n.** (p. 21) Cretaceous, H. M. **Bolli,** A. R. **Loeblich** & H. **Tappan.**

†*Planorotalia* **gen. n.** (p. 1110) (genotype *Planulina membranacea* Ehrenberg 1854) Cretaceous and Paleocene, V. G. **Morozova (1).**

†*Planorotalites* **gen. n.** (p. 1112) (genotype *Globorotalia pseudoscitula* Glaessner) Cretaceous, V. G. **Morozova (1).**

†*Planularia pannekoeki* **sp. n.** (p. 39) Pliocene-Pleistocene, Holland, J. H. van **Voorthuysen (1);** *P. pseudocrepidula* **sp. n.** (p. 208); *P. p.* **var. n.** *robusta* (p. 213); Lias, England, G. C. **Adams;** *P. pulavensis* **sp. n.** (p. 102); *P. p.* **subsp. n.** *umbonata* (p. 102); *P. p.* **subsp. n.** *byurae* (p. 104); Cretaceous, Poland, K. **Pozaryska.**

†*Planulina capensis* **sp. n.** (p. 201) Cretaceous, Zululand, Y. H. **Smitter (3);** *P. damesini* **sp. n.** (p. 67) Eocene, France, V. **Sacal** & A. **Debourle.**

†*Plectina perturbata* (p. 219) Tertiary; [**nom. nud.** of Franzenau 1894]; validation thereof, A. **Franzenau** & L. **Majzon.**

†*Plectinella* **gen. n.** (p. 240) *virgulinoides* **sp. n.** (p. 240) (genotype); *P. visserae* **sp. n.** (p. 242); Cretaceous, Belgium, P. **Marie (1).**

†*Plectofrondicularia carinata* **sp. n.** (p. 229) Tertiary, Central Europe, N. V. **Dabaghyan,** E. V. **Myatlyuk,** & L. S. **Pishranova;** *P. gracilis* **sp. n.** (p. 93) Oligocene, California, H. P. **Smith;** *P. semistriata* **sp. n.** (p. 157) Cretaceous, Western Europe, J. **Hofker (15).**

†*Plectofusulina* **gen. n.** (p. 1056) *franklinensis* **sp. n.** (p. 1057) (genotype) Pennsylvanian, Texas, W. J. **Stewart.**

†*Plectogyra* Zeller; status thereof, J. **St. Jean** jr; *P. kleina, turgida, bullata* **spp. n.** (p. 799); *P. ? gibbosa* **sp. n.** (p. 798); Carboniferous, Utah, R. B. **Woodland;** *P. tumula* **sp. n.** (p. 697); *P. anteflexa, trachida, tumisepta* **spp. n.** (p. 698); *P. torquida, rugosa, irregularis, inflata* **spp. n.** (p. 699); *P. nevadaensis* **sp. n.** (p. 700) Lower Carboniferous, U.S.A., E. J. **Zeller.**

†*Pleurostomella frons* **sp. n.** (p. 306) Miocene, Saipan, R. **Todd (5).**

†*Polymorphina eolithiformis* **nom. n.** (p. 13) [for *P. acuta* d'Orbigny 1825 (*non* d'Orbigny 1846) and *P. acuta* Fornasini 1900 (*non* Conti, Seguenza & Coppi) Eocene, England, J. **Haynes (1).**

†*Porticulasphaera* **gen. n.** (p. 34) (genotype *Globigerina mexicana* Cushman 1925, emended herein) Middle Eocene, H. M. **Bolli,** A. R. **Loeblich** & H. **Tappan.**

†*Praebulimina quadrata* Plummer; status thereof, J. **Hofker (10);** *P. seabeensis* **sp. n.** (p. 217) Cretaceous, Alaska, H. **Tappan.**

†*Praeglobotruncana coarctata* **sp. n.** (p. 55) Cretaceous, Trinidad, H. M. **Bolli (2).**

†*Praelamarckina humilis* **sp. n.** (p. 160) Mesozoic, Ukraine, O. K. **Kaptarenko-Chernoussova (1).**

†*Praesorites* Douvillé 1902; systematics thereof, P. **Marie (2).**

†*Praesumatrina rossica* **sp. n.** (p. 139): *P. primitiva* **sp. n.** (p. 140) Permian, Crimea, A. D. **Miklukho-Maklai (2).**

†*Profusulinella rotundata* **sp. n.** (p. 413); *P. acutissima* **sp. n.** (p. 419); *P. brevissima* **sp. n.** (p. 420); *P. pseudorhomboides* **var. n.** *subrefecta* (p. 422); Upper Palaeozoic, Russia, F. S. **Pumrya.**

†*Proteonina helena* **sp. n.** (p. 552) Devonian, Ohio, C. H. **Summerson.**

†*Psamminopelta* **gen. n.** *bowsheri* **sp. n.** (p. 211) (genotype); *P. subcircularis* **sp. n.** (p. 213); Cretaceous, Alaska, H. **Tappan.**

†*Psammosphaera alba* **sp. n.** (p. 25) North-West Pacific, Y. **Hada;** *P. aspera* **sp. n.** (p. 550); *P. elongata* **sp. n.** (p. 551); Middle Devonian, Ohio, C. H. **Summerson.**

†*Psammosphax hormiscoides* **sp. n.** (p. 552) Devonian, Ohio, C. H. **Summerson.**

†*Pseudocyclammina jaccardi, sequana;* status thereof, W. **Maync (4).**

†*Pseudoeponides* Uchio 1950; systematics thereof, J. **Hofker (20)**; *P. anderseni* **sp. n.** (p. 39) Louisiana bayou, A. D. **Warren**; *P. anderseni* Warren 1957; status thereof, J. B. **Saunders (2)**.

†*Pseudofusulina wandae* **sp. n.** (p. 428) [*nom. nud.*] Carboniferous, Russia, A. D. **Miklukho-Maklai** & V. E. **Ruzhentzev**.

†*Pseudoglandulina humiliformis* **sp. n.** (p. 175) Jurassic, Russia, E. V. **Mamontova**.

†*Pseudononion subcostatum* **sp. n.** (p. 510) Miocene, Japan, Y. **Fujita** & S. **Ito**.

†*Pseudopolymorphina calemberti* **sp. n.** (p. 247); *P. ubaghsi* **sp. n.** (p. 249) Cretaceous, Belgium, P. **Marie (1)**; *P. tropicale* **sp. n.** (p. 49), Miocene, Brazil, S. **Petri**.

†Pseudorbitoididae Rutten 1935; systematics thereof, P. **Bronnimann (5)**.

†*Pseudoschwagerina;* status thereof, C. O. **Dunbar (3)**.

†*Pseudospiroplectinata* **gen n.** *plana* **sp. n.** (p. 879) (genotype) Upper Cretaceous, Donetz Basin, V. F. **Gorbenko**.

†*Pseudostaffella primaeva* **sp. n.** (p. 397); *P. compressa* **var. n.** *donbassica* (p. 398); *P. minutissima* **sp. n.** (p. 400); *P. umbilicatula* **sp. n.** (p. 403); *P. donica* **sp. n.** (p. 404); Upper Palaeozoic, Russia, F. S. **Pumrya**; *P. ? tamanouchiensis* **sp. n.** (p. 262) Permian, Japan, S. **Sakagami**.

†Pseudostaffellinae **subfam. n.** (p. 395) Upper Palaeozoic, F. S. **Pumrya**.

†*Pseudotextularia* Rzehak 1891, emendation thereof, (p. 138), E. M. **Gallitelli**.

†*Pulvinulinella cretacea* **sp. n.** (p. 47) Cretaceous, France, V. **Sacal** & A. **Debourle**.

†*Pyrulinoides thurrelli* **sp. n.** (p. 217) Cretaceous, Alaska, H. **Tappan**.

†*Quinqueloculina atlantica* **sp. n.** (p. 25), Brazilian coastal waters, E. **Boltovskoy (2)**; *Q. fusiformis* **sp. n.** (p. 36), Miocene, Brazil, S. **Petri**; *Q. goësi* **sp. n.** (p. 27) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann**; *Q. itongaziana* **sp. n.** (p. 103) Cretaceous, Natal, Y. H. **Smitter (1)**; *Q. rhodiensis* **var. n.** *incondita* (p. 39), Salton Sea, California, R. E. **Arnal**; *Q. semiangulata, triloculiniforma* **spp. n.** (p. 322); *Q. wheeldoni* **sp. n.** (p. 323), Miocene, Virginia, J. D. **McLean (1)**.

†*Quasiendothyra smekhovi* **sp. n.** (p. 50); *Q. paradoxa* **sp. n.** (p. 51); Carboniferous, Russia, N.S.**Lebedeva**.

Quinqueloculina tubus **sp. n.** (p. 306) Saipan barrier reef, R. **Todd (5)**.

†*Racemiguembelina* **gen. n.** (p. 142) (genotype *Guembelina fructicosa* Egger 1900) Cretaceous, E. M. **Gallitelli**.

†*Radiina* **gen. n.** (p. 775) [*nom. nud.*] Devonian, Russia, E. A. **Reitlinger**.

†*Radiosphaera* **gen. n.** (p. 775) [*nom. nud*] Devonian, Russia, E. A. **Reitlinger**.

†*Ramulina;* systematics thereof, W. **Wetzel (2)**; *R. kittli* **subsp. n.** *tetraedra* (p. 54) Eocene, Austria, W. **Wetzel (2)**.

†*Ranikothalia* Caudri, suppression thereof, (synonym of *Miscellanea* Pfender), S. **Hanzawa (2)**.

†*Rauserella fujimotoi* **sp. n.** (p. 226) Permian, Japan, M. **Kobayashi**.

†*Rectobulimina* **gen. n.** (p. 249) *carpentierae* **sp. n.** (p. 250) (genotype) Cretaceous, Belgium, P. **Marie (1)**.

†*Rectocibicidella robertsi* **sp. n.** (p. 370), Miocene, Virginia, J. D. **McLean (1)**.

†*Rectoglandulina holkeri* **sp. n.** (p. 256) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3)**; *R. kirschneri* **sp. n.** (p. 216) Cretaceous, Alaska, H. **Tappan**.

†*Rectuvigerina tenuicostata* **sp. n.** (p. 35) Tertiary, Columbia, L. E. **Becker** & A. N. **Dusenbury**.

†*Reophax barnardi* **sp. n.** (p. 238) Jurassic, Egypt, R **Said** & M. G. **Barakat (3)**; *R. paucus* **sp. n.** (p. 25); *R. palaoensis, validus* **spp. n.** (p. 26); *R. nodulosus* **var. n.** *minor* (p. 27); *R. pacificus* **sp. n.** (p. 28) *R. obliquus* **sp. n.** (p. 29); *R. delicatus* **sp. n.** (p. 30); North-West Pacific, Y. **Hada**.

†*Reussella exilis* **sp. n.** (p. 307) Eocene, Saipan, R. **Todd (5)**; *R. pacifica, aequa* **spp. n.** (p. 251) Pacific, J. A. **Cushman** & I. **McCulloch**; *R. truncata, pyramidalis* **spp. n.** (p. 215); *R. uvigeriniformis* **sp. n.** (p. 217) Cretaceous, Western Europe, J. **Hofker (15)**;

†*Rhabdammina aegyptiaca* **sp. n.** (p. 237) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3)**.

†*Robulus hedbergi* **var. n.** *subregius* (p. 55); *R. laimingi* **sp. n.** (p. 55); Tertiary, California, O. L. **Bandy** & R. E. **Arnal (2)**; *R. infrasuzakensis* **sp. n.** (p. 65) Tertiary, Russia, N. K. **Bykova**; *R. pseudoiota* **sp. n.** (p. 325) Miocene, Virginia, J. D. **McLean (1)**; *R. taluensis* **sp. n.** (p. 7) Neogene, Taiwan, L. **Chang (6)**; *R. ubugasawensis* **sp. n.** (p. 509) Miocene, Japan, Y. **Fujita** & S. **Ito**.

Rosalina sagrai **sp. n.** (p. 37) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann**.

†*Rotalia becki* **sp. n.** (p. 57) Tertiary, California, O. L. **Bandy** & R. E. **Arnal (2)**; *R. deeckei* Franke 1925; status thereof, F. **Dalbiez (1)**; *R. limbatobeccarrii* **sp. n.** (p. 357), Miocene, Virginia, J. D. **McLean (1)**.

†*Rotorbinella mariei* (van Bellen); status thereof, J. **Hofker (11)**; *R. uhligi* **subsp. n.** *austriaca* (p. 194) Miocene, Austria, A. **Tollmann**.

Rugoglobigerina beldingi **sp. n.** (p. 31); *R. b.* **subsp. n.** *beldingi* (p. 31); *R. b.* **subsp. n.** *subbeldingi* (p. 32); *R. hexacamerata* **subsp. n.** *subhexacamerata* (p. 34); *R. loetterli* **subsp. n.** *subloetterli* (p. 36); *R. circumnodifer* **subsp. n.** *subcircumnodifer* (p. 44); *R. macrocephala* **subsp. n.** *submacrocephala* (p. 46); *R. ornata* **subsp. n.** *subornata* (p. 50); *R. glaessneri* **sp. n.** (p. 50); *R. g.* **subsp. n.** *glaessneri* (p. 50); *R. g.* **subsp. n.** *subglaessneri* (p. 51); *R. petaloidea* **sp. n.** (p. 52); *R. p.* **subsp. n.** *petaloidea* (p. 52); *R. p.* **subsp. n.** *subpetaloidea* (p. 52); *R. rotundata* **subsp. n.** *subrotundata* (p. 70); *R. rugosa* **subsp. n.** *subrugosa* (p. 72); *R. pennyi* **subsp. n.** *subpennyi* (p. 73); Cretaceous, Columbia, R. **Gandolfi (1)**.

†*Rugotruncana* **gen. n.** (p. 546) *tilevi* **sp. n.** (p. 547) (genotype-includes *Globotruncana* cf. *globigerinoides* Bolli 1951 (*non* Brotzen)) Cuba; *R. ellisi* **sp. n.** (p. 547) *R. skewesae* **sp. n.** (p. 550) Texas; *R. nothi* **sp. n.** (p. 551) Cuba; Cretaceous, P. **Bronnimann** & N. K. **Brown (1)**.

†*Russiella* **gen. n.** (p. 98) *pulchra* **sp. n.** (p. 101) (genotype) Permian, Crimea, A. D. **Miklukho-Maklai (2)**.

†*Rzehakina sogabei* **sp. n.** (p. 9); *R. uryuensis* **sp. n.** (p. 10); Cretaceous, Japan, O. **Fukuta**.

†*Saracenaria aegyptiaca* **sp. n.** (p. 258) Jurassic, Egypt, R. **Said** & M. G. **Barakat (3)**; *S. dutroi* **sp. n.** (p. 216) Cretaceous, Alaska, H. **Tappan**; *S. projectura* **sp. n.** (p. 50) Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall**.

†*Schackoina* Thalmann 1932; emendation thereof, (p. 272); *S. pustulans* **subspp. n.** *pustulans, quinquecamerata* (p. 274); *S. reicheli* **sp. n.** (p. 275); Cretaceous, Trinidad, H. M. **Bolli (1)**.

Schubertella cylindrica **sp. n.** (p. 250), Permian, Japan S. **Sakagami** & T. **Omata**; *S. elliptica* **sp. n.** (p. 411) Upper Palaeozoic, Russia, F. S. **Pumrya**.

†*Schwagerina;* status thereof, C. O. **Dunbar (2), (3)**; †*Schwagerina,* type thereof, D. M. **Rauser-Chernoussova**; *S. furoni* **var. n.** *tamanouchiensis* (p. 262), Permian, Japan, S. **Sakagami**; *S. guembeli* **subsp. n.** *compacta* (p. 258) Permian, Japan, S. **Sakagami** & T. **Omata**; *S. sublettensis* **sp. n.** (p. 123) Upper Palaeozoic, Idaho, U.S.A., M. L. **Thompon**, H. W. **Dodge** & W. **Youngquist**.

Sejunctella **gen. n.** (p. 228) *earlandi* **sp. n.** (p. 228) (genotype) [includes *Spirillina lateseptata* Cushman 1931 (*non* Terquem 1875)] French coast, A. R. **Loeblich** & H. **Tappan (5)**.

†*Semiinvoluta* **gen. n.** (p. 276) *clari* **sp. n.** (p. 275) (genotype) Rhaetic, Austria, E. **Kristan**.

†*Sestronophora* **gen. n.** (p. 229) *arnoldi* **sp. n.** (p. 229) (genotype) [includes *Pulvinulina punctulata* Bagg 1912 (*non* d'Orbigny 1826)] Pleistocene, California, A. R. **Loeblich** & H. **Tappan (5)**.

†*Sherbornina* Chapman 1922; sytematic position thereof (p. 159); *S. crassata* **sp. n.** (p. 156) Eocene; *S. cuneimarginata* **sp. n.** (p. 158) mid-Tertiary; Australia, M. **Wade** & A. N. **Carter.**

†*Sigalia* **gen. n.** (p. 242) (genotype *Gumbelina deflaensis* Sigal 1952) Cretaceous, Z. **Reiss (1).**

†*Sigmomorphina brotzeni* **sp. n.** (p. 18) Cretaceous, Holland: *S. soluta* Brotzen, emendation thereof (p. 18); J. **Hofker (3);** *S. sidebottomi* **sp. n.** (p. 168) (includes *Polymophina amygdaloides* Sidebottom (*non* Reuss)) Western Approaches, Atlantic, Y. **Le Calvez (2);** *S. ? bombasta* **sp. n.** (p.10); *S. ? sporadica* **sp. n.** (p. 11); Eocene, England, J. **Haynes (1).**

Sigmovirgulina **gen. n.** (p. 227) (genotype *Bolivina tortuosa* Brady 1881) Indo-Pacific, A. R. **Loeblich** & H. **Tappan (5).**

†*Silicoplacentina* **gen. n.** (p. 269) *hungarica* **sp. n.** (p. 270) (genotype); *S. majzoni, inflata* **spp. n.** (p. 270); *S. irregularis* **sp. n.** (p. 271); Miocene, Hungary, J. **Kövary.**

†*Siphogaudryina* (*Bolivinitella*) *emscheriana* **sp. n.** (p. 74) Cretaceous, Western Europe, J. **Hofker (15).**

†*Siphogenerina lacera* **sp. n.** (p. 243) Tertiary, Russia, N. N. **Subbotina.**

†*Siphogenerinoides eleganta* Plummer; status thereof, J. **Hofker (9).**

†*Siphotextularia rayi* **sp. n.** (p. 206) Cretaceous, Alaska, H. **Tappan.**

Siphotrochammina **gen. n.** *lobata* **sp. n.** (p. 9) (genotype) brackish water, Trinidad, J. B. **Saunders (1).**

†*Sorosphaeroidea trichora, pentachora* **spp. n.** (p. 552) Devonian, Ohio, C. H. **Summerson.**

†*Sphaerella* **gen. n.** (p. 775) [*nom. nud*] Devonian, Russia, E. A. **Reitlinger.**

†*Sphaeridia moldavica* **sp. n.** (p. 343) Miocene, Moldavia, N. **Macarovici,** N. **Pighida,** & B. **Cehan-Ionesi (2).**

†*Sphaeroidina* d'Orbigny; systematics thereof, M. **Vasicek.**

†*Spirolina schweinfurthi* **sp. n.** (p. 82) Cretaceous, Egypt, R. **Said** & A. **Kenawy.**

Spiroloculina anderseni **sp. n.** (p. 28); *S. guppyi* **sp. n.** (p. 29) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann;** *S. folium* **sp. n.** (p. 307) reef, off Saipan, R. **Todd (5).**

†*Spirophthalmidium hechti* **sp. n.** (p. 433) Cretaceous, Western Europe, J. **Hofker (15);** *S. triadicum* **sp. n.** (p. 290) Rhaetic, Austria, E. **Kristan.**

†*Spiroplectammina arabica, macfadyeni, obscura* **spp. n.** (p. 41) Cretaceous, Egypt, R. **Said** & M. G. **Barakat (1);** *S. cappa* **sp. n.** (p. 69), *S. regalis* **sp. n.** (p. 70), *S. sinaiensis* **sp. n.** (p. 71), Cretaceous, Egypt, R. **Siad** & M. G. **Barakat (2);** *S. japericensis* **sp. n.** (p. 34), Miocene, Brazil, S. **Petri;** *S. koveri, webberi* **spp. n.** (p. 205) Cretaceous, Alaska, H. **Tappan;** *S. regulans* **sp. n.** (p. 58) Cretaceous, Western Europe, J. **Hofker (15);** *S. monetalis* **sp. n.** (p. 60) Tertiary, Russia, N. K. **Bykova;** *S. multicamerata* **sp. n.** (p. 79) Cretaceous, Egypt, R. **Said** & A. **Kenawy;** *S. taiwanica* **sp. n.** (p. 67) Miocene, Taiwan, L. S. **Chang (5).**

†*Stensioina exculpta* **var. n.** *aspera* (p. 349); *S. pommerana* **var. n.** *juvenilis* (p. 351); *S. altissima* **sp. n.** (p. 353) Cretaceous, Western Europe, J. **Hofker (15).**

†*Streblospira* **gen. n.** *meandrina* **sp. n.** (p. 74) (genotype); *S. kimberleyensis, australae* **spp. n.** (p. 75); Permian, Australia, I. **Crespin** & D. J. **Belford.**

Streblus irridescens **sp. n.** (p. 41) Salton Sea, California, R. E. **Arnal;** *S. limnetes* **sp. n.** (p. 38) Gulf of Paria, Trinidad, R. **Todd** & P. **Bronnimann.**

†*Sulcoperculina angulata* **sp. n.** (p. 29) Cretaceous, Cuba, N. K. **Brown** jr. & P. **Bronnimann.**

Sulcophax palustris **sp. n.** (p. 31) Louisiana bayou, A. D. **Warren.**

†*Sumatrina rossica* **sp. n.** (p. 157), Permian, Crimea, A. D. **Miklukho-Maklai (2).**

†Sumatrininae **subfam. n.** (p. 136), Permian, A. D. **Miklukho-Makloi (2).**

†Sumatrininae; systematics thereof, K. **Kanmera (2).**

†*Tentifrons* **gen. n.** (p. 225) *barnardi* **sp. n.** (p. 226) (genotype) [includes *Flabellina* cf. *angulosa* d'Orbigny of Barnard 1949] Cretaceous, A. R. **Loeblich** & H. **Tappan** (5).

†*Textularia agglutissima* **sp. n.** (p. 149) Cretaceous, Holland, J. **Hofker** (12); *T. alreata* **sp. n.** (p. 307) Siapan lagoon, R. **Todd** (5); *T. beregoviensis* **sp. n.** (p. 299) Miocene, Eastern Europe, E. V. **Venglinaki**; *T. eustisensis* **sp. n.** (p. 318); *T. pseudobliqua* **sp. n.**, *T. p.* **subsp. n.** *aspera* (p. 320); Miocene, Virginia, J. D. **McLean** (1): *T. foliacea* **subsp. n.** *kebajoranensis* (p. 32) Quaternary, Indonesia, P. **Marks**; *T. granosuturata, renzi* **spp. n.** (p. 9) Tertiary, Columbia, L. E. **Becker** & A. N. **Dusenbury**; *T. japericensis* **sp. n.** (p. 35) Miocene, Brazil, S. **Petri**; *T. palustris* **sp. n.** (p. 34) Louisiana bayou, A. D. **Warren**; *T. topagorukensis* **sp. n.** (p. 205) Cretaceous, Alaska, H. **Tappan**.

†*Textulariodes* (?) *carteri* **sp. n.** (p. 321), Miocene, Virginia, J. D. **McLean** (1).

†*Tetrataxis biconvexa, labiata* **spp. n.** (p. 38) Carboniferous, Indiana, J. **St. Jean** jr.; *T. eomaxima, donetzica* **spp. n.** (p. 376) Upper Palaeozoic, Russia, F. S. **Pumrya**; *T. eominima* **var n.** *lata* (p. 133); *T. quasiconica* **var. n.** *plana* (p. 137); *T. submedia* **var. n.** *quasidentata* (p. 139); *T. pusillus* **sp. n.** (p. 141); Carboniferous, Russia, V. K. **Gholubtzov** (2); *T. humilis* **sp. n.** (p. 292); *T. inflata* **sp. n.** (p. 293) Rhaetic, Austria, E. **Kristan**; *T. nemejci* **sp. n.** (p. 355) Namurian, Czechslovakia, M. **Vašiček** & B. **Růžička** (2).

†*Thalmanninella wicheri* **sp. n.** (p. 322) Cretaceous, Western Europe, J. **Hofker** (1).

†*Thomasinella* Schlumberger; systematic position thereof, J. **Sigal** (3).

Tinophodella **gen. n.** (p. 113) *umbitacrena* **sp. n.** (p. 114) (genotype) Atlantic Ocean, A. R. **Loeblich** & H. **Tappan** (7).

Tiphotrocha **gen. n.** (p. 11) (genotype *Trochammina comprimata* Cushman & Bronnimann, emended by author p. 11.) brackish water, Trinidad, J. B. **Saunders** (1).

†*Toriyamaia* **gen. n.** (p. 251) *laxiseptata* **sp. n.** (p. 252) Permian, Japan, K. **Kanmera** (1).

†*Tortonella* **gen. n.** (p. 1138) *bondartschuki* **sp. n.** (p. 1139) (genotype) Miocene, Poland, V. Y. **Didkovski**.

†*Tournayella* **gen. n.** (p. 30) *discoidea* **sp. n.** (p. 32) (genotype); *T. segmentata* **sp. n.** (p. 34); *T. moelleri* **sp. n.** (p. 33) and *T. questita* **sp. n.** (p. 35) (authorship of both these species assigned to Malakhova Mss); Carboniferous, Russia, L. G. **Dain**.

†Tournayellidae **fam. n.** (p. 16) Carboniferous, Russia, L. G. **Dain**.

†*Tournayellinae* **subfam n.** (p. 21) Carboniferous, Russia, L. G. **Dain**.

†*Trifarina labrum* **sp. n.** (p. 247) Tertiary, Russia, N. N. **Subbotina**.

Triloculina incisura **sp. n.** (p. 308) reef off Saipan, R. **Todd** (5).

†*Tristix mooni* **sp. n.** (p. 43) Cretaceous, Egypt, R. **Said** & M. G. **Barakat** (1).

†*Triticites hataii* **sp. n.** (p. 241); *T. henbesti* **sp. n,** (p. 243), Upper Palaeozoic, Japan, H. **Igo** (2); *T. intermedia* **sp. n,** (p. 253); *T. fujinoi* **sp. n.** (p. 254) Permian, Japan, S. **Sakagami** & T. **Omata**; *T. kawensis* **sp. n.** (p. 325); *T. iatensis* **sp. n.** (p. 326) Upper Palaeozoic, United States, M. L. **Thompson**.

†*Trochammina bartensteini, depressula* **spp. n.** (p. 245); *T. douvillei* **sp. n.** (p. 246); Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3); *T. eilete* **sp. n.** (p. 213); *T. stefanssoni, umiatensis, whittingtoni* **spp. n.** (p. 214); Cretaceous, Alaska, H. **Tappan**; *T. gatesensis* **sp. n.** (p. 53) Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall**; *T. japericensis* **sp. n.** (p. 32) Miocene, Brazil, S. **Petri**; *T. pentagona* **sp. n.** (p. 64) Eocene, England, J. **Haynes** (2); *T. phaseolus* **sp. n.** (p. 284) Cretaceous, Dakota, U.S.A., H. **Skolnick**.

Trochamminita Cushman & Bronnimann 1948, emendation thereof, (p. 4); *T. irregularis* Cushman & Bronnimann 1948, emendation there-

of (p. 4); *T. salsa* (*Labrospira salsa* Cushman & Bronnimann), emendation thereof, (p. 6); brackish water, Trinidad, J. B. **Saunders** (1).

†*Trocholina belorussica* **sp. n.** (p. 226) Mesozoic, Russia, I. V. **Mityanina**; *T. burgeri* **sp. n.** (p. 250) Lower Cretaceous, Algeria, J. **Emberger** (2); *T. multispira* **sp. n.** (p. 261); *T. ventroplana* **sp. n.** (p. 262); *T. biconvexa* **sp. n.** (p. 263); *T. b.* **subsp. n.** *major* (p. 263); *T. b.* **subsp. n.** *biconvexa* (p. 264); *T. b.* **subsp. n.** *minor* (p. 264); Trias, Alps, R. **Oberhauser** (2); *T.* (*Paratrocholina*) *eomesozoica* **sp. n.** (p. 266) Trias, Alps, R. **Oberhauser** (2); *T. Paratrocholina* **subgen. n.** (p. 196) *oscillens* **sp. n.** (p. 196) (subgenotype) Mesozoic, Turkey, R. **Oberhauser** (1); *T.* (*Trocholina*) *verrucosa* **sp. n.** (p. 284) Rhaetic, Austria, E. **Kristan**; †*Trocholina*; new subgenus *Trochonella*, E. **Kristan**.

†*Trochonella* **subgen. n.** (p. 285) (of *Trocholina*) *crassa* **sp. n.** (p. 285) (subgenotype); *T.* (*T.*) *laevis* **sp. n.** (p. 286); Rhaetic, Austria, E. **Kristan**.

†*Trochospirillina* **gen. n.** (p. 230) *granulosa* **sp. n.** (p. 231) (genotype); *T. radiata* **sp. n.** (p. 232); Mesozoic, Russia, I. V. **Mityanina**.

†*Truncorotalia aragonensis, caucasica*; distinction thereof, Z. **Reiss** (1).

†*Tuberitina grandis, porifera* **spp. n.** (p. 98); *T. rotunda* **sp. n.** (p. 99); Carboniferous, Russia, V. K. **Gholubtzov** (2).

†*Tubitextularia laevigata* **sp. n.** (p. 180) Tertiary, Alabama, U.S.A., A. R. **Loeblich** & H. **Tappan** (3).

†*Tubulogenerina turbina* **sp. n.** (p. 143) Eocene, Florida, H. L. **Levin**.

†*Uvigerina cushmani* **sp. n.** (p. 257) Californian coast; *U. excellens* **sp. n.** (p. 258) Californian coast; *U. incilis* **sp. n.** (p. 260) Mexican coast; *U. peregrina* **var. n.** *dirupta* (p. 267) Californian coast; [authorship to Todd in all cases] J. A. **Cushman** & I. **McCulloch**; *U. weaveri* **sp. n.** (p. 178) *U. laimingi* **sp. n.** (p. 177); *U. gardnerae* **var. n.** *pachecoensis* (p. 177); Palaeogene, California, B. Y. **Smith**.

†*Uvigerinella californica* var. *perparva* **nom. n.** (p. 58) (for *U. californica* var. *parva* Kleinpell 1938 (*non U. parva* Cushman & Jarvis 1929) O. L. **Bandy** & R. E. **Arnal** (2); *U. oveyi* **sp. n.** (p. 74) Eocene, England, J. **Haynes** (2).

†*Vaginulina baulerae, caucasica* **spp. n.** (p. 178); *V. psekentschiensis* **sp. n.** (p. 179); *V. cubanica* **sp. n.** (p. 181); *V. urupensis* **sp. n.** (p. 182); *V. toarica* **sp. n.** (p. 185); Jurassic, Russia, E. V. **Mamontova**; *V. icenii* **sp. n.** (p. 65) Eocene, England, J. **Haynes** (2).

†*Vaginulinopsis bartensteini, misrensis* **spp. n.** (p. 251) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3).

†*Valvoreussella* **gen. n.** (p. 42) [genotype *Verneuilina bronni* Reuss 1848] Cretaceous, J. **Hofker** (15).

†*Valvulineria fukushimensis* **sp. n.** (p. 511) Miocene, Japan, Y. **Fujita** & S. **Ito**; *V. latidorsata* **sp. n.** (p. 338) Eocene, France, M. **Bourdon** & M. **Lys**; *V. martinezensis* **sp. n.** (p. 180) Palaeogene, California, B. Y. **Smith**; *V. pulchra* **sp. n.** (p. 308); *V. ? scita* **sp. n.** (308); Eocene, Saipan, R. **Todd** (5); *V. washingtoni* **sp. n.** (p. 354), Miocene, Virginia, J. D. **McLean** (1).

†*Vandenbroekia* **gen. n.** (p. 128) *muniera* **sp. n.** (p. 128) (genotype) Cretaceous, France, P. **Marie** (2).

†*Verneuilina porta* **sp. n.** (p. 55) Cretaceous, Canada, C. R. **Stelck** & J. H. **Wall**.

†*Verneuilinoides attenuata, loeblichi, minuta* **spp. n.** (p. 242) Jurassic, Egypt, R. **Said** & M. G. **Barakat** (3); *V. borealis* **sp. n.** (p. 206); *V. fischeri* **sp. n.** (p. 207); *V. tailleuri* **sp. n.** (p. 208); Cretaceous, Alaska, H. **Tappan**.

†*Virgulina kushiroensis* **sp. n.** (p. 64), Palaeogene, Japan, S. **Yoshida**.

†*Webbinella* Rhumbler 1904, emendation theoreof (p. 226), A. R. **Loeblich** & H. **Tappan** (5); *W. disparicella* **sp. n.** (p. 553) Devonian, Ohio, C. H. **Summerson**.

†*Webbinelloidea multicarinata* **sp. n.** (p. 554); *W. nodosa, polyhedra, rugosa* **sp. n.** (p. 555); Devonian, Ohio, C. H. **Summerson**.

†*Weikkoella* **gen. n.** *sphaerica* **sp. n.** (p. 548) (genotype); *W. binodosa* **sp. n.** (p. 549); Devonian, Ohio, C. H. **Summerson.**

†*Woodringina* **gen. n.** (p. 39) *claytonensis* **sp. n.** (p. 39) (genotype) Paleocene, Gulf Coast, U.S.A., A. R. **Loeblich** & H. **Tappan (6).**

†*Zotheculifida* **gen. n.** (p. 224) (genotype *Textularia lirata* Cushman & Jarvis 1929, emended herein) Tertiary, A. R. **Loeblich** & H. **Tappan (5).**

(d) **Heliozoa.**

Actinosphaerium nucleofilum **sp. n.** (p. 208) pond, U.S.A., J. M. **Barrett.**

(e) **Radiolaria.**

†Lapidopiscidae **fam. n.** (p. 2278) Carboniferous, G. **Deflandre (6).**

†*Lapidopiscum* **gen. n.** (p. 2278) *piveteaui* **sp. n.** (p. 2278) Carboniferous, France, G. **Deflandre (6).**

2.—MASTIGOPHORA

A. PHYTOMASTIGINA

(a) **Chrysomonadida.**

†Coccolithinae; systematics therefor, E. **Kamptner (1).**

Systematics of Coccolithineae, E. **Kamptner (2).**

†New Cretaceous coccolithophorids from Poland, H. **Gorka.**

Diacronema vlkianum **gen. n., sp. n.** (p. 123, 124) from freshwater, Germany, H. **Pravser.**

†*Discoaster floridus* **sp. n.** (p. 264) Cretaceous, Poland, H. **Gorka.**

†*Discolithus mielnicensis, bochoticae, baskensis propinquus* **spp. n.** (p. 250); *D. litterarius* **sp. n.** (p. 251); *D. trabalis, anceps, initialis, duplus* **spp. n.** (p. 252); *D. transformis, inconstens, stabilis* **spp. n.** (p. 253); *D. maltanensis, nativus, dissimilis, tabeculatus* **spp. n.** (p. 255); *D. ingens, multicavus, firmus, calcareus* **spp. n.** (p. 256); *D. mediocris, rudis, numerosus, constans* **spp. n.** (p. 257); *D. geometricus, octoradiatus, quadrireticulatus, deformis* **spp. n.** (p. 258); Cretaceous, Poland, H. **Gorka.**

†*Dictyolithus* **gen. n.** *elegans* **sp. n.** (p. 261) (genotype); *D. tenuis, quadratus* **spp. n.** (p. 261); Cretaceous, Poland, H. **Gorka.**

†Goniolithidae **fam. n.** (p. 2541) Palaeogene, Europe, G. **Deflandre (3).**

†*Goniolithus* **gen. n.** *fluckigeri* **sp. n.** (p. 2539) (genotype) Palaeogene, Europe, G. **Deflandre (3).**

†*Micrantholithus lidiae* **sp. n.** (p. 264) Cretaceous, Poland, H. **Gorka.**

†*Nephrolithus* **gen. n.** *frequens* **sp. n.** (p. 263) (genotype); *N. trientis, furcatus* **spp. n.** (p. 263); *N. barbarae* **sp. n.** (p. 264); Cretaceous, Poland, H. **Gorka.**

†*Peritrachelina hamata, levis* **spp. n.** (p. 260); *P. leviarcuata* **sp. n.** (p. 261); Cretaceous, Poland, H. **Gorka.**

†*Rhabdolithus menomierzi, casimiroviensis* **spp. n.** (p. 243); *R. simplex* **sp. n.** (p. 245); Cretaceous, Poland, H. **Gorka.**

Stephanocodon stellatum (Bourr) **n. comb.** (p. 466) for *Bicoeca stellata* Bournelly, 1951. P. **Marvan.**

Synura petersenii, form. *kufferathii* **form. n.**, form. *macracantha* **form. n.** (p. 10) *Synura conradii* = *S. echinulata* korsh, (p. 5). J. B. **Petersen** & J. B. **Hansen.**

†*Tremalithus ellipticus, melaniae* **spp. n.** (p. 245); *T. dilucidus, quadripunctatus, regularis, romani* **spp. n.** (p. 246); *T. pulaviensis, similis, rhomboidalis, enodis* **spp. n.** (p. 247); *T. infrequens, fluctuans, ignotus, postremus*, **spp. n.** (p. 248); Cretaceous, Poland, H. **Gorka.**

†*Zygolithus polonicus, vistulae* **spp. n.** (p. 242); *Z. maestrichtiensis* **sp. n.** (p. 243) Cretaceous, Poland, H. **Gorka.**

(b) **Cryptomonadida.**

[No record].

(c) **Dinoflagellata.**

Systematics of Ellobiopsidae, H. **Boschma.**

Amphidinium carteri **nom. n.** (p. 199) [for *A. klebsi* Carter 1937]; *A. wislouchi* sp. n. (p. 199); Cape Cod embayments, E. M. **Hulburt;** *A. elegans*, **sp. n.** (p. 12) K. G. **Grell,** & K. E. **Wohlfarth-Botterman.**

†*Gonyaulax longicornis* **sp. n.** (p. 420) Jurassic, England, C. **Downie.**

Gymnodinium lazulum, *G. stellatum* **spp. n.** (p. 205); *G. striatissimum* **sp. n.** (p. 206); Cape Cod embayments, E. M. **Hulburt.**

Gyrodinium estuariale, *G. aureolum* **spp. n.** (p. 209); *G. resplendens*, *G. uncatenum* **spp. n.** (p. 210); *G. metum*, *G. glaebum* **spp. n.** (p. 211); *G. undulans*, *G. dominans* **spp. n.** (p. 212); Cape Cod embayments, E. M. **Hulburt.**

†*Palaeoperidinium nudum*, *mosaicum* **spp. n.** (p. 424) Jurassic, England, C. **Downie.**

†*Scriniodinium* **gen. n.** (p. 409) (genotype *Gymnodinium crystallinum* Deflandre 1938) Jurassic, K. W. **Klement.**

Woloszynskia limnetica **sp. n.** (p. 299) from pond, England, A. **Bursa.**

(d) **Euglenoidida.**

Astasia solea **sp. n.** (p. 131), pool, England; *A. acutecaudata* **comb. n.** (p. 132) [for *Khawkinea acutecaudata* Skiya 1948]; *A. serpens* **sp. n.** (p. 132) Alps; E. G. **Pringsheim.**

Euglena; systematics thereof, E. G. **Pringsheim**; *E. magnifica* **sp. n.** (p. 97); *E. laciniata* **sp. n.** (p. 98); *E. radiata* (Chadefaud) **comb. n.** [for *Lepocinclis radiata* Chadefaud 1937]; *E. cuneata* **sp. n.** (p. 108); *E. cantabrica* **sp. n.** (p. 109); all pools, England, E. G. **Pringsheim**; *E. sphagnicola*, **sp. n.** (p. 254) S. **Peterfi.**

(e) **Phytomonadida.**

Phytomonas tortuosa **sp. n.** (p. 87) from Costa Rican *Ficus*, A. **Ruiz (1).**

B. ZOOMASTIGINA

(f) **Protomonadida.**

Leishmania adleri **sp. n.** (p. 68) from Kenyan lizards, R. B. **Heisch (1).**

Trypanosoma ulanovi **sp. n.**; *T. ochotoni* **sp. n.** from Russian rodents, I. G. **Galuzo** & V. F. **Novinskaya (1).**

(g) **Trichomonadida.**

[No record].

(h) **Hypermastigida.**

Revision of Spirotrichonymphidae, L. R. **Cleveland** & M. **Day.**

Aspironympha **gen. n.** (p. 8), *A. lata* **sp. n.** (p. 23), *A. intermedia* **sp. n.** (p. 24), *A. nana* **sp. n.** (p. 25), *A. agyra* **sp. n.** (p. 25) from termites, L. R. **Cleveland** & M. **Day.**

Colospironympha **gen. n.** (p. 8), *C. cateia* **sp. n.** (p. 26), *C. exigua* **sp. n.** (p. 27), *C. agyra* **sp. n.** (p. 27) from termites, L. R. **Cleveland** & M. **Day.**

Leptospironympha ampla **sp. n.** (p. 11), *L. acuta* **sp. n.** (p. 11), *L. minor* **sp. n.** (p. 12), *L. numida* **sp. n.** (p. 13), *L. gigantea* **sp. n.** (p. 13) from *Stolotermes*; L. R. **Cleveland** & M. **Day.**

Spirotrichosoma campanulum **sp. n.** (p. 15). *S. limura* **sp. n.** (p. 15), *S. synaxostylatum* **sp. n.** (p. 16) *S. granosum* **sp. n.** (p. 17), *S. parvum* **sp. n.** (p. 18), *S. elongatum* **sp. n.** (p. 18), *S. magnum* **sp. n.** (p. 20) *S. paramagnum* **sp. n.** (p. 21), *S. submagnum* **sp. n.** (p. 22), *S. normum* **sp. n.** (p. 23) from termites, L. R. **Cleveland** & M. **Day.**

(i) **Diplomonadida.**

[No record].

(j) **Polymonadida.**

[No record].

(k) **Opalinida.**

Opalina obtrigonoidea intermedia **subsp. n.** (p. 137), *O. pulvinata* **sp. n.** (p. 140), *O. ranarum latouchi* **form. n.** (p. 140), *O. cingulata* **sp. n.** (p. 142) from Formosan frogs, S. **Liu.**

Protoopalina caudata filiformis **subsp. n.** (p. 133) from Formosan frog, S. **Liu.**

3.—SPOROZOA

A. COCCIDIOMORPHA

(a) **Gregarinida.**

Identity of *Zeylanocystis fernandoi* with *Stomatophora simplex*, R. A. **Jayatilleke.**

Actinocephalus bodenheimeri **sp. n.** (p. 27), *A. albertianus* **sp. n.** (p. 30) from grasshoppers, J. **Théodoridès**, R. **Ormierès** & P. **Jolivet.**

Echinomera caudata **sp. n.** (p. 310) from French myriapod, J. **Théodoridès** & R. **Ormières.**

Gregarina geopetiti **sp. n.** (p. 315) from cockroach, J. **Théodoridès** & R. **Ormières;** *G. joliveti* **sp. n.** (p. 105), from tenebrionid, J. **Théodoridès (1);** *G. tuzetae* **sp. n.** (p. 15), *G. desaegeri* **sp. n.** (p. 16), *G. africana* **sp. n.** (p. 20) *G. grassei* **sp. n.** (p. 22) from grasshoppers from Belgian Congo, J. **Théodoridès,** R. **Ormières** & P. **Jolivet.**

Mattesia orchopiae **sp. n.** (p. 375) from English squirrel flea. B. **Dasgupta (1).**

Lophocephalus fernandezi **sp. n.** (p. 107) from tenebrionid, J. **Théodoridès (1).**

Selenidium flabelligerae **sp. n.** (p. 72) from annelid, O. **Tuzet** & R. **Ormières.**

Stenophora plagiodesmi **sp. n.** (p. 15) from myriapod, C. A. W. **Jeekel etc.**

(b) **Coccidiida.**

Eimeria hoffmeisteri **sp. n.** (p. 292), *E. dipodomysis* **sp. n.** (p. 293), *E. liomysis* **sp. n.** (p. 295), *E. picti* **sp. n.** (p. 295) and *E. baiomysis* **sp. n.** (p. 296) from Mexican rodents, N. D. **Levine,** V. **Ivens** & F. J. **Kruidenier;** *E. levinei,* **sp. n.** (p. 82) from Liberian hat, *E. firestonei,* **sp. n.** (p. 82), *E. milleri* **sp. n.** (p. 82) from Liberian shrew, *E. patevelata,* **sp. n.** (p. 83) from Liberian mouse, R. S. **Bray (3);** *E. saiga* **sp. n.** (p. 195) from saiga, S. K. **Svanbaev (4).**

Haemogregarina melisseleusis **sp. n.** (p. 1) from lizard, Z. **Gorgevitch.**

Haemoproteus galathae **sp. n.** (p. 220), *H. clelandi* **sp. n.** (p. 223), *H. johnstoni* **sp. n.** (p. 225) from Pacific birds, M. **Laird** & E. **Laird.**

Hepatozoon griseisciuri, **sp. n.** (p. 58), from American squirrrel, G. M. **Clark (2).**

Isospora capreoli **sp. n.** (p. 188) from *Capreolus,* S. K. **Svanbaev. (4).**

(c) **Haemosporidia.**

Validity of *Babesia divergens* S. F. M. **Davies,** L. P. **Joyner** & S. B. **Kendall (1).**

Critical review of systematic problems of pinoplasms, A. H. H. **Mohammed.**

Discussion of specific criteria in avian *Plasmodium* spp., M. **Laird** & F. A. **Lari.**

Gonderia herpestis **sp. n.** (p. 430) from Egyptian mongoose, M. H. **Haiba.**

Haemoproteus danilewskii var. *cairogensis* **var. n.** (p. 186); *H. cellii* var. *aegyptius* **sp. emend., var. n.** (p. 197); *H. lanii* var. *nucleophilus* **var. n.** (p. 217); *H. herodiadis* var. *mathis-legeri* **var. n.** (p. 223) from Egyptian birds, A. H. H. **Mohammed.**

Hepatocystis hippopotami **sp. n.** (p. 149) from hippopotamus, P. C. C. **Garnham (2).**

Nuttalia shortti **sp. n.** (p. 79) from kestrel, A. H. H. **Mohammed.**

Plasmodium atheruri **sp. n.** (p. 973) from wild pig from Belgian Congo, L van den **Berghe,** E. **Peel,** M. **Chardome** F. L. **Lambrecht.**

B. CNIDOSPORIDIA

(d) **Myxosporidia.**

[No record].

(e) **Microsporidia.**

Spore size as taxonomic character in Microsporidia, V. A. **Walters.**

(f) **Actinomyxidia.**

[No record].

(g) **Sarcosporidia.**

[No record].

(h) **Haplosporidia.**

[No record].

SPOROZOA INCERTAE SEDIS.

Classification of *Toxoplasma, Sarcocystis* and related organisms. E. **Biocca (3).**

New class Toxoplasmatea for *Toxoplasma,* E. **Biocca (2).**

Longicollus ochridensis nov. gen nov. sp. (p. 32) in lymphocytes and muscle tissue of an oligochete, J. **Georgevitch (1).**

Pirhemocyton eremiasi **sp. n.** (p. 510) from Morocco, G. **Blanc** & L. **Ascione**; *P. chamoeleonis* **sp. n.** (p. 810) from chamaeleon, A. **Dodin** & E. R. **Brygoo.**

4.—CILIOPHORA

GENERAL

Problems in selection of type genera in Ciliophora, J. O. **Corliss (3).**

A. CILIATA

(a) **Holotrichida.**

Systematics of holotrich ciliates, J. O. **Corliss (2).**

Taxonomy of *Balantidium*, D. H. **Wenrich.**

Biggaria caryoselaginelloides **n. sp.** (p. 446.) T. R. **Tchang.**

Chaena humicola **sp. n.** (p. 19) J. **Gellért.**

Glaucoma terricola **sp. n.** (p. 19) J. **Gellért.**

Lacrimaria flagellifera **sp. n.** (p. 18) J. **Gellért.**

Paramecium jenningsi, **sp. n.** (p. 155) from Southern India, W. F. **Diller** & P. R. **Earl.**

Systematics of *Pseudomicrothorax* J. O. **Corliss (4).**

Sphenophrya dreissenae **sp. n.** (p. 177) J. **Dobrańska.**

(b) **Heterotrichida.**

Blepharisma candidum, n. sp. (p. 82) R. **Yagiu** & Y. **Shigenaka.**

Follicullina gigantea Dons [includes *Filellum gabriellae* Vannucci-originally described as a hydroid], M. **Vannucci.**

†*Nannocladinella* **gen. n.** *epitheca* **sp. n.** (p. 3093) (? genotype) [attached to *Priscofolliculina pulchra* **gen. et. sp. n.**] ? Jurassic, France, G. **Deflandre** & J. **Deunfj.**

Nyctotherus mutsorae **sp. n.** (p. 21) *N. rhamphidarpae* **sp. n.** (p. 25) from myriapod, C. A. W. **Jeekel** etc.

†*Prisofolliculina* **gen. n.** (p. 3093) *pulchra* **sp. n.** (p. 3093) (? genotype) ? Jurassic, France G. **Deflandre** & J. **Deunfj.**

(c) **Oligotrichida.**

†*Tintinopsella ricotensis* **sp. n.** (p. 46) Lower Cretaceous, Spain, G. **Colom (3).**

(d) **Entodiniomorpha.**

Polyplastron arcticum **sp. n.** (p. 954) from rumen of reindeer, G. **Lubinsky (2).**

Entodinium alpinum **sp. n.** (p. 299) from mountain goat, H. **Christl (1)**; *E. ibicis* **sp. n.** (p. 404), *E. couturieri* **sp. n.** (p. 406), *E. wertheimi* **sp. n.** (p. 408) from mountain goat, H. **Christl (2).**

(e) **Hypotrichida.**

Blepharisma vitreum **sp. n.** (p. 233) I. **Lepşi.**

Gonostomum gellii **sp. n.** (p. 19), J. **Gellért.**

Opistotricha terricola **sp. n.** (p. 21), J. **Gellért.**

Oxytricha histrioides **sp. n.** (p. 20), J. **Gellért.**

Tachysoma humicola **sp. n.** (p. 20), J. **Gellért.**

Uroleptus poianae **sp. n.** (p. 236), I. **Lepsi.**

Urosoma macrostoma **sp. n.** (p. 21) J. **Gellért.**

(f) **Peritrichida.**

Taxonomic status of *Cyclodonta* **n. gen.** (p. 482), D. **Matthes.**

Epistylis helenae nom-nov. (p. 10), epibiont on *Daphnia* in Finland, J. **Green.**

Ophrydium insolitum **sp. n.** (p. 237), I. **Lepşi.**

Stentor entroversus, **sp. nov.** (p. 93) pond in U.S.A., V. **Tartar (2).**

Systematics of amphibian *Trichodina*, J. **Lom (1).**

Trichodina domerguei form. *jadranica* **forma n.** (p. 356), *T. rectuncinata* **sp. n.** (p. 357), *T. ovonucleata* **sp. n.** (p. 359) from gills of Adriatic fish, Z. **Raabe (2).**

B. SUCTORIA

Urnula turpissima, **sp. n.** (p. 182), K. **Kormos.**

PROTISTA INCERTAE SEDIS

New problematical microfossils for the Pre-Cambrian, M. G. **Graindor (2)**.

†New Jurassic hystrichospherids from Germany, A. **Eisenack.**

†*Aremoricanium* **gen. n.** *rigaudae* **sp. n.** (p. 229) (genotype) (Hystrichospherid) Silurian, France, J. **Deunff.**

†*Cayeuxidae* **fam. n.** (p. 2075) ? Pre-Cambrian, France, M. G. **Graindor (2)**.

†*Cayeuxipora* **gen. n.** (p. 2075) (no genotype listed); *C. falloti, pruvosti, dangeudi, robboti* **spp. n.** (p. 2076) ? Pre-Cambrian, France, M. J. **Graindor (2)**.

†*Cayeuxipora* Graindor 1957; status thereof, G. **Deflandre (4)**.

†*Cayeuxistylus* **gen. n.** (p. 2077) ? Pre-Cambrian, France, M. G. **Graindor (2)**.

†*Cymatiosphaera pachytheca* **sp. n.** (p. 244) Jurassic, Germany, A. **Eisenack.**

†*Palaeocryptidium* **gen. n.** (p. 184) *cayeuxi* **sp. n.** (p. 184) (genotype) Pre-Cambrian, France [? Hystrichospheridae], G. **Deflandre (1)**.

†Pareodinidae **fam. n.** (p. 165) Cretaceous, Germany, H. **Gocht.**

†*Pseudoceratium* **gen. n.** *pelliferum* **sp. n.** (p. 166) (genotype); *P.* ? *nudum, tetracanthum* **spp. n.** (p. 168); Cretaceous, Germany, H. **Gocht.**

†*Stomiosphaera asdadensis* **sp. n.** (p. 31) Jurassic, Morocco, G. **Colom** & P.-L. **Allard.**

†*Tytthodiscus suevicus* **sp. n.** (p. 241), Jurassic, Germany, A. **Eisenack.**

†*Wetzeliella* ? *neocomica* **sp. n.** (p. 172); *W.* ? *n.* **forma. n.** *cruciformis* (p. 176); *W.* ? *n.* **forma. n.** *dedecosa* (p. 177); *W.* ? *n.* **formae n.** *pteridia, circulata, convexa* (p. 178); Cretaceous, Germany, H. **Gocht.**